

**B-SERIES MOTOR GRADERS**  
**845B | 865B | 885B**

**CASE**  
CONSTRUCTION



**POWER AND  
PRECISION**

[www.casece.com](http://www.casece.com)  
**EXPERTS FOR THE REAL WORLD**  
**SINCE 1842**

# HERITAGE

## A TRADITION OF INDUSTRY FIRSTS



## EXPERTS FOR THE REAL WORLD SINCE 1842

**1842** Case is founded.

**1869** First Case portable steam engine - road construction is born.

**1957** The first factory - integrated loader/backhoe in the world: a Case industry first.

**1958** The first Case 4-WD wheel loader, the W9.

**1967** Case enters excavator market.

**1998** Ride control on loader backhoes and skid steer loaders: another Case first.

**2011** All around visibility Cab" introduction on 800 series

and FPT TIER III Engine installation ("B series")

**2012** Torque converter introduction on flagship model 885B

**2015** Case graders enter the European market with the new T4 final /EU Stage IV models.

# POWER TO THE GROUND



845B



865B



885B



## VARIABLE POWER CURVE

for excellent performance

From a unique moldboard design that rolls a superior mix to a fuel-efficient, turbocharged Tier 3 engine that achieves operating speeds of up to 43 km/h to a spacious, rear-mounted cab that gives operators exceptional visibility of the working components of the machine.

For even higher performance the Dual Power maximizes operation at higher speed thanks to the double (845B/885B) or triple (865B) engine curve flattening from 4th gear.



# B-SERIES MOTOR GRADERS



## MULTI RADIUS BLADE

### Productivity with less power

The reinforced involuted moldboard improves the blade life thanks to different radius. The CASE radius design consists of three different radius allowing a more efficient and continuous cutting, mixing and rolling. The mixing effect is efficient on the spread out material too. This improves road surface consistency and longevity.



## “A-SHAPE” FRAME

### Longer working life

The durable front A-frame drawbar and high-strength circle provide outstanding stability. The A-frame drawbar has a heavy duty boxed frame design supporting the circle with a wide stance. It has increased the life of the circle and the drawbar components.



## EXTERNALLY DRIVEN CIRCLE TEETH

### Insensitive to shocks

Case motor graders are designed with external circle teeth. The external teeth are easier to clean and provide a larger contact area to avoid components wear and for a greater leverage when turning the blade under load. This means there is no need for slip clutches or shear pins, which normally require repositioning or repair.



# MOLDBOARD PRECISION TECHNOLOGY



## SHOCK-ABSORBING CIRCLE SAVER

### Safer in tough conditions

This option protects your circle turn components. It acts as a shock absorber and allows the moldboard overpass obstructions and then return to its original position. This works automatically.

No adjustment or operator intervention is required.



# **B-SERIES** **MOTOR GRADERS**



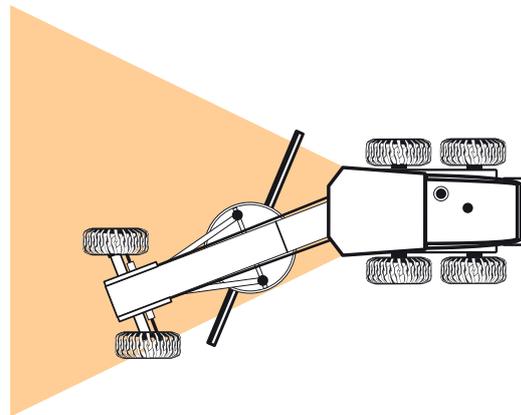


## HIGH VISIBILITY

Best sight on circle, saddle, moldboard and more

The rear-mounted cab of B Series motor graders, combined with floor-to-ceiling glazed windows give operators a superior visibility of breakaway side mirrors, moldboard, circle, saddle and tires.

Even rearward, the sleek, sloping hood provide excellent visibility when backing up.



## MASSIVE CAB MASSIVE COMFORT

Stress free operativity

The Isomount cab reduces noise and vibration, and consequently operator fatigue. Couple that with a deluxe suspension seat with lumbar control and any operator will be not only comfortable, but more productive.

The sloping rear hood, breakaway heavy-duty side mirrors, and floor to ceiling glass with defrost rear window allow for outstanding visibility to the rear and to the front.



## REAR MOUNTED CAB

Aligned with performances

Case™ industry exclusive visibility on front articulation design allows the cab mounting to be further back on the machine. With front articulation the operator maintains a centered position while the gooseneck is articulated. This design increases visibility to the moldboard, circle, saddle, and tires. The front articulation gives the operator the possibility to see simultaneously the rear and the front half of the machine without the operator having to look to the side while the machine is articulated. In addition, front articulation allows for a tight turning radius, which is ideal for cul-de-sacs and tight job sites.

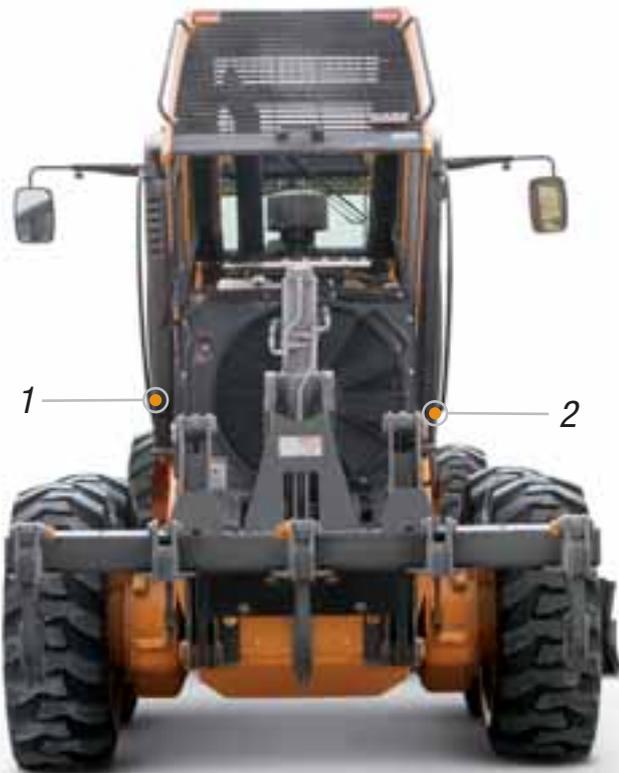
# B-SERIES MOTOR GRADERS



## EASY ACCESS

### Make it easy

When you invest in CASE equipment, you look for duration. We make it simple. CASE B Series motor graders are no exception. From a one-piece, flip-up hood and a reversible fan option that blows out cooler debris to ground-level site gauges and service points, you can do daily maintenance in a matter of minutes. It's the easiest way to help you get the effective performance and longest life out of your machine.



## SAFE AND EASY MAINTENANCE

### No tools needed

The daily maintenance of each CASE grader model can be managed without the use of any specific tools. All the hoods can be easily removed or lifted without any effort making visible and reachable all the vital components of the machine. The grader refilling can be done directly from the ground and the large tanks capacity allows to work for the whole day without stopping.

# MAINTENANCE SAFE AND EASY

- 1. Engine air filter
- 2. Fuel fill
- 3. External circle teeth

- 4. Hydraulic test ports
- 5. Grease zerks
- 6. Swing-out batteries

- 7. Site gauges
- 8. Flip-up hood
- 9. Oil drain hoses



# **B-SERIES** **MOTOR GRADERS**



# ATTACHMENTS

## THE ART OF VERSATILITY



FRONT COUNTERWEIGHT



FRONT PUSH PLATE



RIPPER



FRONT DOZER BLADE

SCARIFIER



### HIGH VERSATILITY

CASE offers a variety of versatile grader attachments, and accessories including:

- Front counterweight
- Ripper
- Scarifier
- Front push plate - light 1,084 lbs - heavy 1,764 lbs
- Front dozer blade
- Rear pull hook
- Additional lighting packages
- Lift cylinder accumulators
- Float control
- Moldboard extensions

# MAIN REASONS TO CHOOSE THE B-SERIES



## TORQUE CONVERTER LOCK-UP

The CASE transmission combines the torque converter typical smoothness, for fine grading, with the direct drive solution for full power transfer.



## LOAD-SENSING HYDRAULIC SYSTEM

The balanced flow for all applications and for simultaneous moldboard movements.



## «A-SHAPE» FRAME

An optimized effort distribution in any condition ensures long operating life.



## MULTI-RADIUS BLADE

Lower power absorption and optimized rolling effect.



### REAR MOUNTED CAB

Best in class controllability and comfort: the operator is always in line with the working direction.



### EASY ACCESS

The easy serviceability is part of CASE DNA: all the main checks can be easily performed from ground level; all the service points are conveniently grouped and positioned.



### VARIABLE POWER CURVE

The FPT Engine always ensures the necessary power for any task. On the 845B and 885B two power curves are available, while on the 865B three engine settings are installed for even better performances.



### EXTERNALLY DRIVEN CIRCLE TEETH

The external pinion is not subject to any chock while working in heavy grading, meanwhile the slewing ring external teeth prevent residual material accumulation extending the overall working life.



### HIGH VERSATILITY

The wide variety of options offers, to any customer, the possibility to create a tailored grader suitable for the most demanding applications.

# SERVICES

## A VALUABLE PARTNERSHIP



A complete range of financial and insurance services customised to your needs:

- Financing • Leasing • Mechanical breakdown insurance
- Repair cost insurance • Full Service

### THE IDEAL FINANCIAL SOLUTION FOR EVERY CASE CUSTOMER

CNHI CAPITAL is the financing company for CASE Construction. Our staff are specialist financial services experts with many years of experience in the construction sector. We know CASE's products and its markets very well. Most importantly, we also, have an in-depth understanding of the individual requirements of your business. For this reason, we are always able to offer the best financing solution for your new investments, matched to your operational requirements and to the intended use of your new machinery. The solution may take the form of a loan, or of a rental or leasing agreement. Our top priority is to improve the cost-effectiveness of your investments! This is why you can, combine every CNHI CAPITAL financing package with CNHI CAPITAL insurance cover against mechanical breakdown or repair costs, so that you can eliminate investment risks and plan effectively.

*Check the service availability in your country*

**Genuine Parts**  
HIGH PERFORMANCE



### PARTS & SERVICE

CNH Industrial Parts & Service has one overriding objective: maximize your equipment's productive time and performance by providing fast and efficient support. To do this, it operates a global network of 57 parts depots that manages 5 million parts and ships over 36 million order lines every year. We deliver 24/7, covering a machine population of 3.5 million through partnerships with suppliers that meet the most stringent quality standards in terms of raw materials and production processes; strict compliance testing to ensure product reliability, durability and safety, guaranteeing the machine's long term value and performance; and distribution and availability of spare parts and accessories for the entire life cycle of the machine. Our Original Parts guarantee the maximum reliability and performance over time. We also offer a wide range of customised Accessories to optimise the efficiency, comfort and safety of our machines. Our Remanufactured Parts (Reman) give new life to products, benefiting our customers and the environment. Finally, our Special Lines meet the demand of spare parts for older machines and other manufacturers' models.

# **B-SERIES** **MOTOR GRADERS**



# B-SERIES MOTOR GRADERS

## 845B SPECIFICATIONS

### ENGINE

Brand \_\_\_\_\_ FPT  
 Model \_\_\_\_\_ F4HE9684L  
 Type \_\_\_\_\_ Electronic common rail fuel system, water cooled,  
 4 cycle, direct injection, turbocharged and charge air cooled.  
 (EPA TIER 3 certified.)

Cylinders \_\_\_\_\_ 6, in line  
 Bore and stroke \_\_\_\_\_ 104 x 132 mm  
 Engine displacement \_\_\_\_\_ 6.7 l (6728 cm<sup>3</sup>)

#### Horsepower at 2.200 rpm

##### Gross (SAE J1995 Gross)

Low Curve \_\_\_\_\_ 150 hp (112 kW)\*1  
 High Curve \_\_\_\_\_ 173 hp (129kW)\*2

##### Net (SAE J1349)

Low Curve \_\_\_\_\_ 140 hp (104 kW)\*1  
 High Curve \_\_\_\_\_ 163 hp (119 kW)\*2

#### Maximum torque at 1.500 rpm

##### Gross (SAE J1995 Gross)

Low Curve \_\_\_\_\_ 659 Nm\*1  
 High Curve \_\_\_\_\_ 758 Nm\*2

##### Net (SAE J1349)

Low Curve \_\_\_\_\_ 591 Nm\*1  
 High Curve \_\_\_\_\_ 678 Nm\*2

### POWERTRAIN

#### Rear axle

Vertical ground clearance \_\_\_\_\_ 374 mm  
 Differential \_\_\_\_\_ Limited slip / 60% torque transfer  
 \* Brakes \_\_\_\_\_ Disk, bathed in oil  
 Number of disks per brake \_\_\_\_\_ 5

#### Tandem

Type \_\_\_\_\_ Welded Plate (2204 x 631 x 200.5 mm)  
 Oscillation \_\_\_\_\_ 20° in each direction  
 Command chain pitch \_\_\_\_\_ 50.8 mm  
 Thickness of the internal and external side wall \_\_\_\_\_ 19 mm

#### Front axle

Type \_\_\_\_\_ High-resistance welded steel  
 Oscillation \_\_\_\_\_ 15.3° in each direction  
 Wheel lean \_\_\_\_\_ 20° in each direction  
 Vertical ground clearance \_\_\_\_\_ 580 mm  
 \* SAE J150 3450 (brake performance)

### HYDRAULIC SYSTEM

Type \_\_\_\_\_ Closed center, load sensing  
 Hydraulic pump \_\_\_\_\_ Axial piston pump, variable flow,  
 fitted with load sensing system  
 Rated flow \_\_\_\_\_ 186 l/min (49 gpm) at 2200 rpm  
 Control valve \_\_\_\_\_ 9 sections

### TRANSMISSION

Brand \_\_\_\_\_ ZF  
 Model \_\_\_\_\_ ZF TC LOCK UP 6WG – 160  
 Type \_\_\_\_\_ Torque converter lockup (also functions as Direct Drive)  
 Powershift, electronic shift change control, automatic and without  
 inching pedal for progressive advancing

Gears \_\_\_\_\_ 6 forward / 3 reverse  
 Self-diagnostic system \_\_\_\_\_ On board

Speeds - km/h	Forward	Reverse
1 <sup>st</sup>	5.0	5.3
2 <sup>nd</sup>	7.7	12.5
3 <sup>rd</sup>	11.8	28.6
4 <sup>th</sup>	18.2	-
5 <sup>th</sup>	27.2	-
6 <sup>th</sup>	41.5	-

### ELECTRICAL SYSTEM

Power \_\_\_\_\_ 24 V  
 Alternator \_\_\_\_\_ 90 A  
 Batteries \_\_\_\_\_ 2x100 Ah – low maintenance

### STEERING

Type \_\_\_\_\_ Hydrostatic  
 Steering wheel turns (lock to lock) \_\_\_\_\_ 4.75  
 Pump capacity at 2.200 rpm \_\_\_\_\_ 41.8 l/min  
 Pressure release valve \_\_\_\_\_ 2200 psi (151 bar)  
 integrated with the priority steering valve

Cylinders \_\_\_\_\_ 2  
 Bore \_\_\_\_\_ 50.8 mm  
 Stroke \_\_\_\_\_ 301 mm  
 Rod diameter \_\_\_\_\_ 25.4 mm  
 Supplemental steering \_\_\_\_\_ Integrated  
 SAE J53 e J1511

### ARTICULATION

Type \_\_\_\_\_ Hydraulically activated (with a lock valve)  
 Angle \_\_\_\_\_ 25° to the left/right  
 Controls \_\_\_\_\_ Hydraulic

### CAPACITIES

Engine \_\_\_\_\_ 17.5 l  
 with a change in filter \_\_\_\_\_ 18.5 l  
 Fuel \_\_\_\_\_ 341 l  
 Transmission \_\_\_\_\_ 25 l  
 with a change in filter \_\_\_\_\_ 27 l  
 Engine water cooling system \_\_\_\_\_ 40 l  
 Hydraulic oil tank \_\_\_\_\_ 90 l  
 Total hydraulic system \_\_\_\_\_ 180 l  
 Circle turn housing \_\_\_\_\_ 2.8 l  
 Tandem case (each) \_\_\_\_\_ 69 l

Notes: \*1 Gears 1<sup>st</sup>, 2<sup>nd</sup> F e 1<sup>st</sup>, 2<sup>nd</sup> R  
 \*2 Gears 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup> F e 3<sup>rd</sup> R

# SPECIFICATIONS

## SADDLE

Locking system \_\_\_\_\_ Two hydraulic cylinders  
Saddle positions \_\_\_\_\_ 5

## FRAME

Type \_\_\_\_\_ Box section  
Front section \_\_\_\_\_  
Size \_\_\_\_\_ 254 x 298 mm  
Rear section \_\_\_\_\_  
Size \_\_\_\_\_ 121 x 299 mm

## DRAWBAR

Type \_\_\_\_\_ "A" frame welded construction with  
center mounted circle turn motor  
Connection with the frame \_\_\_\_\_ Shim adjustable spherical joint

## CIRCLE

Type \_\_\_\_\_ Welded construction  
Maximum outside diameter \_\_\_\_\_ 1752.6 mm  
Rotation \_\_\_\_\_ 360°  
Speed \_\_\_\_\_ 1.2 rpm (7.2°/second)  
Drive \_\_\_\_\_ Hydraulic motor  
Displacement \_\_\_\_\_ 0,25 l/turn  
Rated hydraulic flow \_\_\_\_\_ 94.6 l/min (25 gpm)  
N° of supports in phenolic resin \_\_\_\_\_ 4

## BLADE

Type \_\_\_\_\_ High-carbon steel  
Form \_\_\_\_\_ Involute curve  
Width \_\_\_\_\_ 3658 mm (12 ft) / 3962 mm (13 ft) / 4267 mm (14 ft)  
Height (curved profile) \_\_\_\_\_ 622 mm  
Thickness \_\_\_\_\_ 22 mm  
Cutting edge \_\_\_\_\_ 2, interchangeable  
Blade pitch positions \_\_\_\_\_  
Normal pitch \_\_\_\_\_ 47°

Minimum pitch \_\_\_\_\_ 42°  
Maximum pitch \_\_\_\_\_ 87°  
Blade side shift \_\_\_\_\_  
Right \_\_\_\_\_ 686 mm  
Left \_\_\_\_\_ 533 mm  
Maximum bank-cutting angle (left and right) \_\_\_\_\_ 90°  
Ground penetration (max.) \_\_\_\_\_ 711.2 mm  
Lift above ground (max.) \_\_\_\_\_ 444.5 mm  
Blade side shift and pitch \_\_\_\_\_ Hydraulic type

## FRONT SCARIFIER

Cutting width \_\_\_\_\_ 1168 mm  
Teeth \_\_\_\_\_ 5 (optional, 11)  
Spacing between teeth \_\_\_\_\_ 229 mm (114 mm, optional)  
Lift above ground \_\_\_\_\_ 527 mm  
Maximum penetration \_\_\_\_\_ 318 mm  
Weight \_\_\_\_\_ 570 kg

## REAR RIPPER

Type \_\_\_\_\_ Parallelogram  
Cutting width \_\_\_\_\_ 2340 mm  
Ripper teeth \_\_\_\_\_ 3 / 5 optional  
Scrifier teeth \_\_\_\_\_ 5 (9 optional)  
Lift above ground \_\_\_\_\_  
Ripper teeth \_\_\_\_\_ 518 mm  
Maximum penetration \_\_\_\_\_  
Ripper teeth \_\_\_\_\_ 437 mm  
Weight \_\_\_\_\_ 795 kg

## DOZER BLADE

Width \_\_\_\_\_ 2762 mm  
Height \_\_\_\_\_ 953 mm  
Lift above ground \_\_\_\_\_ 622 mm  
Penetration \_\_\_\_\_ 165 mm  
Weight \_\_\_\_\_ 1165 kg

## 845B OPERATING WEIGHT

With a 3658 mm blade, operator weigh 75 kg, full tank

845B VHP	Weight (kg)
Basic machine	14174
Basic machine with ripper and front counterweight	15000

## 845B ACCESSORIES WEIGHT

845B VHP	Weight (kg)
Front counterweight	492
Heavy push plate	800
Light push plate	492

# B-SERIES

## MOTOR GRADERS

### 865B SPECIFICATIONS

#### ENGINE

Brand FPT  
 Model F4HE9687B  
 Type Electronic common rail fuel system, water cooled,  
 4 cycle, direct injection, turbocharged and charge air cooled.  
 (EPA TIER 3 certified.)

Cylinders 6, in line  
 Bore and stroke 104 x 132 mm  
 Engine displacement 6.7 l (6728 cm<sup>3</sup>)

#### Horsepower at 2.200 rpm Gross (SAE J1995 Gross)

Low Curve 193 hp (144 kW)\*1  
 Mid Curve 205 hp (153 kW)\*2  
 High Curve 220 hp (164 kW)\*3

#### Net (SAE J1349)

Low Curve 178 hp (133 kW)\*1  
 Mid Curve 190 hp (142 kW)\*2  
 High Curve 205 hp (153 kW)\*3

#### Maximum torque at 1.500 rpm Gross (SAE J1995 Gross)

Low Curve 830 Nm\*1  
 Mid Curve 880 Nm\*2  
 High Curve 930 Nm\*3

#### Net (SAE J1349)

Low Curve 743 Nm\*1  
 Mid Curve 788 Nm\*2  
 High Curve 832 Nm\*3

#### POWERTRAIN

##### Rear axle

Vertical ground clearance 374 mm  
 Differential Conventional planetary with 100%  
 electro-hydraulic lock

\* Brakes Disk, bathed in oil  
 Number of disks per brake 5

##### Tandem

Type Welded Plate (2204 x 631 x 200.5 mm)  
 Oscillation 20° in each direction  
 Command chain pitch 50.8 mm  
 Thickness of the internal and external side wall 19 mm

##### Front axle

Type High-resistance welded steel  
 Oscillation 20° in each direction  
 Wheel lean 15.3° in each direction  
 Vertical ground clearance 580 mm

\* SAE J150 3450 (brake performance)

#### HYDRAULIC SYSTEM

Type Closed center, load sensing  
 Hydraulic pump Axial piston pump, variable flow,  
 fitted with load sensing system

Rated flow 186 l/min (49 gpm) at 2200 rpm  
 Control valve 9 sections

Notes: \*1 Gears 1<sup>st</sup>, 2<sup>nd</sup> F e 1<sup>st</sup>, 2<sup>nd</sup> R  
 \*2 Gears 3<sup>rd</sup>, 4<sup>th</sup> e 3<sup>rd</sup> R  
 \*3 Gears 5<sup>th</sup>, 6<sup>th</sup>

#### TRANSMISSION

Brand ZF  
 Model ZF TC LOCK UP 6WG – 160  
 Type Torque converter lockup (also functions as Direct Drive)  
 Powershift, electronic shift change control, automatic and without  
 inching pedal for progressive advancing

Gears 6 forward / 3 reverse  
 Self-diagnostic system On board

Speeds - km/h	Forward	Reverse
1 <sup>st</sup>	5.4	5.5
2 <sup>nd</sup>	8.1	13.1
3 <sup>rd</sup>	12.4	30.3
4 <sup>th</sup>	19.2	-
5 <sup>th</sup>	28.7	-
6 <sup>th</sup>	44.1	-

#### ELECTRICAL SYSTEM

Power 24 V  
 Alternator 90 A  
 Batteries 2x100 Ah – low maintenance

#### STEERING

Type Hydrostatic  
 Steering wheel turns (lock to lock) 4.75  
 Pump capacity at 2.200 rpm 41.8 l/min  
 Pressure release valve 2200 psi (151 bar)  
integrated with the priority steering valve

Cylinders 2  
 Bore 50.8 mm  
 Stroke 301 mm  
 Rod diameter 25.4 mm  
 Supplemental steering Integrated  
 SAE J53 e J1511

#### ARTICULATION

Type Hydraulically activated (with a lock valve)  
 Angle 25° to the left/right  
 Controls Hydraulic

#### CAPACITIES

Engine 17.5 l  
 with a change in filter 18.5 l  
 Fuel 341 l  
 Transmission 25 l  
 with a change in filter 27 l  
 Engine water cooling system 40 l  
 Hydraulic oil tank 90 l  
 Total hydraulic system 190 l  
 Circle turn housing 2.8 l  
 Tandem case (each) 69 l

# SPECIFICATIONS

## SADDLE

Locking system \_\_\_\_\_ Two hydraulic cylinders  
Saddle positions \_\_\_\_\_ 5

## FRAME

Type \_\_\_\_\_ Box section  
Front section \_\_\_\_\_  
Size \_\_\_\_\_ 254 x 298 mm  
Rear section \_\_\_\_\_  
Size \_\_\_\_\_ 121 x 299 mm

## DRAWBAR

Type \_\_\_\_\_ "A" frame welded construction with  
center mounted circle turn motor  
Connection with the frame \_\_\_\_\_ Shim adjustable spherical joint

## CIRCLE

Type \_\_\_\_\_ Welded construction  
Maximum outside diameter \_\_\_\_\_ 1752.6 mm  
Rotation \_\_\_\_\_ 360°  
Speed \_\_\_\_\_ 1.2 rpm (7.2°/second)  
Displacement \_\_\_\_\_ 0.25 l/turn  
Rated hydraulic flow \_\_\_\_\_ 94.6 l/min (25 gpm)  
N° of supports in phenolic resin \_\_\_\_\_ 4

## BLADE

Type \_\_\_\_\_ High-carbon steel  
Form \_\_\_\_\_ Involute curve  
Width \_\_\_\_\_ 3658 mm (12 ft) / 3962 mm (13 ft) / 4267 mm (14 ft)  
Height (curved profile) \_\_\_\_\_ 671 mm  
Thickness \_\_\_\_\_ 22 mm  
Cutting edge \_\_\_\_\_ 2, interchangeable  
Blade pitch positions \_\_\_\_\_  
Normal pitch \_\_\_\_\_ 47°

Minimum pitch \_\_\_\_\_ 42°  
Maximum pitch \_\_\_\_\_ 87°  
Blade side shift \_\_\_\_\_  
Right \_\_\_\_\_ 686 mm  
Left \_\_\_\_\_ 533 mm  
Maximum bank-cutting angle (left and right) \_\_\_\_\_ 90°  
Ground penetration (max.) \_\_\_\_\_ 711.2 mm  
Lift above ground (max.) \_\_\_\_\_ 444.5 mm  
Blade side shift and pitch \_\_\_\_\_ Hydraulic type

## FRONT SCARIFIER

Cutting width \_\_\_\_\_ 1168 mm  
Teeth \_\_\_\_\_ 5 (optional, 11)  
Spacing between teeth \_\_\_\_\_ 229 mm (114 mm, optional)  
Lift above ground \_\_\_\_\_ 527 mm  
Maximum Penetration \_\_\_\_\_ 318 mm  
Weight \_\_\_\_\_ 570 kg

## REAR RIPPER

Type \_\_\_\_\_ Parallelogram  
Cutting width \_\_\_\_\_ 2340 mm  
Ripper teeth \_\_\_\_\_ 3 / 5 optional  
Scarifier teeth \_\_\_\_\_ 5 (9 option)  
Lift above ground \_\_\_\_\_  
Ripper teeth \_\_\_\_\_ 518 mm  
Maximum penetration \_\_\_\_\_  
Ripper teeth \_\_\_\_\_ 437 mm

## DOZER BLADE

Width \_\_\_\_\_ 2762 mm  
Height \_\_\_\_\_ 953 mm  
Lift above ground \_\_\_\_\_ 622 mm  
Penetration \_\_\_\_\_ 165 mm  
Weight \_\_\_\_\_ 1165 kg

## 865B OPERATING WEIGHT

With a 3962 mm blade, operator weigh 75 kg, full tank

865B VHP	Weight (kg)
Basic machine	14437
Basic machine with ripper and front counterweight	15870

## 865B ACCESSORIES WEIGHT

865B VHP	Weight (kg)
Front counterweight	492
Heavy push plate	800
Light push plate	492

# B-SERIES

## MOTOR GRADERS

### 885B SPECIFICATIONS

#### ENGINE

Brand \_\_\_\_\_ FPT  
 Model \_\_\_\_\_ F4HE9687B  
 Type \_\_\_\_\_ Electronic Common Rail fuel System, Water Cooled,  
 4 Cycle, Direct Injection, Turbocharged and Charge Air Cooled.  
 (EPA TIER 3 certified.)  
 Cylinders \_\_\_\_\_ 6, in line  
 Bore and stroke \_\_\_\_\_ 104 x 132 mm  
 Engine displacement \_\_\_\_\_ 6.7l (6728 cm<sup>3</sup>)  
**Horsepower at 2.200 rpm**  
**Gross (SAE J1995 Gross)**  
 Low Curve \_\_\_\_\_ 220 hp (164 kW)\*1  
 High Curve \_\_\_\_\_ 234 hp (175 kW)\*2  
**Net (SAE J1349)**  
 Low Curve \_\_\_\_\_ 205 hp (153 kW)\*1  
 High Curve \_\_\_\_\_ 219 hp (163 kW)\*2  
**Maximum torque at 1.500 rpm**  
**Gross (SAE J1995 Gross)**  
 Low Curve \_\_\_\_\_ 924 Nm\*1  
 High Curve \_\_\_\_\_ 984 Nm\*2  
**Net (SAE J1349)**  
 Low Curve \_\_\_\_\_ 864 Nm\*1  
 High Curve \_\_\_\_\_ 924 Nm\*2

#### POWERTRAIN

**Rear axle**  
 Vertical ground clearance \_\_\_\_\_ 359 mm  
 Differential \_\_\_\_\_ Conventional planetary with 100%  
 electro-hydraulic lock  
 \* Brakes \_\_\_\_\_ Disk, bathed in oil  
 Number of disks per brake \_\_\_\_\_ 6  
**Tandem**  
 Type \_\_\_\_\_ Welded Plate (2.204 x 631 x 200.5 mm)  
 Oscillation \_\_\_\_\_ 20° in each direction  
 Command chain pitch \_\_\_\_\_ 50.8 mm  
 Thickness of the internal and external side wall \_\_\_\_\_ 19 mm  
**Front axle**  
 Type \_\_\_\_\_ High-resistance welded steel  
 Oscillation \_\_\_\_\_ 20° in each direction  
 Wheel lean \_\_\_\_\_ 15.3° in each direction  
 Vertical ground clearance \_\_\_\_\_ 580 mm  
 \* SAE J150 3450 (brake performance)

#### HYDRAULIC SYSTEM

Type \_\_\_\_\_ Closed center, load sensing  
 Hydraulic pump \_\_\_\_\_ Axial piston pump, variable flow,  
 fitted with load sensing system  
 Rated flow \_\_\_\_\_ 186 l/min (49 gpm) at 2200 rpm  
 Control valve \_\_\_\_\_ 9 sections

#### TRANSMISSION

Brand \_\_\_\_\_ ZF  
 Model \_\_\_\_\_ ZF TC LOCK UP 6WG – 160  
 Type \_\_\_\_\_ Torque converter lockup (also functions as Direct Drive)  
 Powershift, electronic shift change control, automatic and without  
 inching pedal for progressive advancing  
 Gears \_\_\_\_\_ 6 forward / 3 reverse  
 Self-diagnostic system \_\_\_\_\_ On board  

Speeds - km/h	Forward	Reverse
1 <sup>st</sup>	4.5	4.8
2 <sup>nd</sup>	6.9	11.7
3 <sup>rd</sup>	11.1	27.4
4 <sup>th</sup>	16.9	-
5 <sup>th</sup>	25.9	-
6 <sup>th</sup>	38.8	-

#### ELECTRICAL SYSTEM

Power \_\_\_\_\_ 24 V  
 Alternator \_\_\_\_\_ 120 A  
 Batteries \_\_\_\_\_ 2x100 Ah – low maintenance

#### STEERING

Type \_\_\_\_\_ Hydrostatic  
 Steering wheel turns (lock to lock) \_\_\_\_\_ 4.75  
 Pump capacity at 2.200 rpm \_\_\_\_\_ 41.8 l/min  
 Pressure release valve \_\_\_\_\_ 2200 psi (151 bar)  
 \_\_\_\_\_ integrated with the priority steering valve  
 Cylinders \_\_\_\_\_ 2  
 Bore \_\_\_\_\_ 50.8 mm  
 Stroke \_\_\_\_\_ 301 mm  
 Rod diameter \_\_\_\_\_ 25.4 mm  
 Supplemental steering \_\_\_\_\_ Integrated  
 SAE J53 e J1511

#### ARTICULATION

Type \_\_\_\_\_ Hydraulically activated (with a lock valve)  
 Angle \_\_\_\_\_ 25° to the left/right  
 Controls \_\_\_\_\_ Hydraulic

#### CAPACITIES

Engine \_\_\_\_\_ 17.5 l  
 with a change in filter \_\_\_\_\_ 18.5 l  
 Fuel \_\_\_\_\_ 341 l  
 Transmission \_\_\_\_\_ 34 l  
 with a change in filter \_\_\_\_\_ 36 l  
 Engine water cooling system \_\_\_\_\_ 40 l  
 Hydraulic oil tank \_\_\_\_\_ 94.6 l  
 Total hydraulic system \_\_\_\_\_ 180 l  
 Circle turn housing \_\_\_\_\_ 2.8 l  
 Tandem case (each) \_\_\_\_\_ 69 l

Notes: \*1 Gears 1<sup>st</sup>, 2<sup>nd</sup> F e 1<sup>st</sup>, 2<sup>nd</sup> R  
 \*2 Gears 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup> F e 3<sup>rd</sup> R

# SPECIFICATIONS

## SADDLE

Locking system \_\_\_\_\_ Two hydraulic cylinders  
Saddle positions \_\_\_\_\_ 5

## FRAME

Type \_\_\_\_\_ Box Section  
Front section \_\_\_\_\_  
Size \_\_\_\_\_ 254 x 298 mm  
Rear section \_\_\_\_\_  
Size \_\_\_\_\_ 121 x 299 mm

## DRAWBAR

Type \_\_\_\_\_ "A" frame welded construction with  
center mounted circle turn motor  
Connection with the frame \_\_\_\_\_ Shim adjustable spherical joint

## CIRCLE

Type \_\_\_\_\_ Welded construction  
Maximum outside diameter \_\_\_\_\_ 1752.6 mm  
Rotation \_\_\_\_\_ 360°  
Speed \_\_\_\_\_ 1.2 rpm (7.2°/second)  
Drive \_\_\_\_\_ Hydraulic motor  
Displacement \_\_\_\_\_ 0.25 l/turn  
Rated hydraulic flow \_\_\_\_\_ 94.6 l/min (25 gpm)  
N° of supports in phenolic resin \_\_\_\_\_ 4

## BLADE

Type \_\_\_\_\_ High-carbon steel  
Form \_\_\_\_\_ Involute curve  
Width \_\_\_\_\_ 3658 mm (12 ft) / 3962 mm (13 ft) / 4267 mm (14 ft)  
Height (curved profile) \_\_\_\_\_ 671 mm  
Thickness \_\_\_\_\_ 22 mm  
Cutting edge \_\_\_\_\_ 2, interchangeable  
Blade pitch positions \_\_\_\_\_  
Normal pitch \_\_\_\_\_ 47°

Minimum pitch \_\_\_\_\_ 42°  
Maximum pitch \_\_\_\_\_ 87°  
Blade side shift \_\_\_\_\_  
Right \_\_\_\_\_ 686 mm  
Left \_\_\_\_\_ 533 mm  
Maximum bank-cutting angle (left and right) \_\_\_\_\_ 90°  
Ground penetration (max.) \_\_\_\_\_ 711.2 mm  
Lift above ground (max.) \_\_\_\_\_ 444.5 mm  
Blade side shift and pitch \_\_\_\_\_ Hydraulic type

## FRONT SCARIFIER

Cutting width \_\_\_\_\_ 1168 mm  
Teeth \_\_\_\_\_ 5 (optional, 11)  
Spacing between teeth \_\_\_\_\_ 229 mm (114 mm, optional)  
Lift above ground \_\_\_\_\_ 527 mm  
Maximum Penetration \_\_\_\_\_ 318 mm  
Weight \_\_\_\_\_ 570 kg

## REAR RIPPER

Type \_\_\_\_\_ Parallelogram  
Cutting width \_\_\_\_\_ 2340 mm  
Ripper teeth \_\_\_\_\_ 3 / 5 optional  
Scarifier Teeth \_\_\_\_\_ 5 (9 option)  
Lift above ground \_\_\_\_\_  
Ripper teeth \_\_\_\_\_ 518 mm  
Maximum penetration \_\_\_\_\_  
Ripper teeth \_\_\_\_\_ 437 mm  
Weight \_\_\_\_\_ 850 kg

## DOZER BLADE

Width \_\_\_\_\_ 2762 mm  
Height \_\_\_\_\_ 953 mm  
Lift above ground \_\_\_\_\_ 622 mm  
Penetration \_\_\_\_\_ 165 mm  
Weight \_\_\_\_\_ 1165 kg

## 885B OPERATING WEIGHT

With a 4267 mm blade, operator weigh 75 kg, full tank

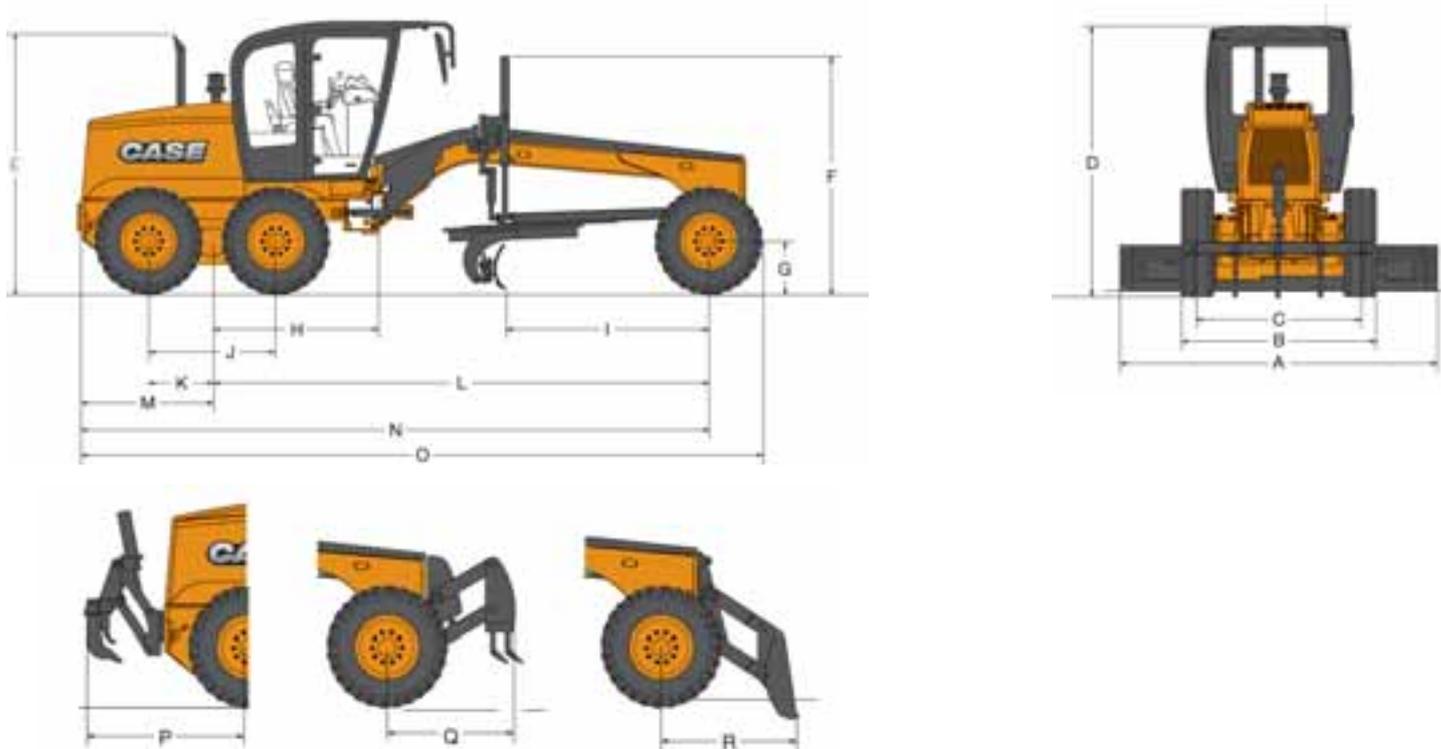
885B VHP	Weight (kg)
Basic machine	16708
Basic machine with ripper and front counterweight	18050

## 885B ACCESSORIES WEIGHT

885B VHP	Weight (kg)
Front counterweight	492
Heavy push plate	800
Light push plate	492

# B-SERIES MOTOR GRADERS

## GENERAL DIMENSIONS



	845B VHP	865B VHP	885B VHP
A Blade width	3658 mm	3962 mm	4267 mm
B Tread width	2499 mm	2452 mm	2654 mm
C Tread gauge	2108 mm	2108 mm	2174 mm
D Height on top of the cab	3340 mm	3340 mm	3340 mm
E Height of top of exhaust	3323 mm	3323 mm	3323 mm
F Height to top of blade lift cylinder	3047 mm	3047 mm	3047 mm
G Tire static radius	610 mm	610 mm	610 mm
H Distance between tandem center and the frame articulation pin	1958 mm	1958 mm	1958 mm
I Distance between the front axle and the blade	2562 mm	2562 mm	2562 mm
J Distance between the center of the rear tires	1572 mm	1572 mm	1624 mm
K Distance between tandem center and the wheel	786 mm	786 mm	812 mm
L Wheelbase	6219 mm	6219 mm	6219 mm
M Distance between tandem center and the rear part of the equipment	1650 mm	1650 mm	1661 mm
N Distance between the front wheel axle and the rear part of the equipment	7868 mm	7869 mm	7880 mm
O Overall length	8554 mm	8534 mm	8534 mm
P Distance between the rear tires and the ripper	2028 mm	2028 mm	2040 mm
Q Distance between the front tires and the scarifier	1520 mm	1520 mm	1520 mm
R Distance between the front tires and the dozer blade	1626 mm	1626 mm	1645 mm
Turning radius (outside the tires)	7250 mm	7250 mm	7289 mm

All units fitted with 14.0 x 24-12L tires, open ROPS/FOPS cab, standard battery, full fuel tank, operator weighing 75 kg, specifications in accordance with ISO 7134.

# STANDARD AND OPTIONS

## STANDARD EQUIPMENT

### OPERATOR STATION

ROPS/FOPS open cab with:  
Adjustable suspension vinyl seat, with a 50.8 mm (2") seatbelt  
Adjustable operator console  
Pedal accelerator  
Manual accelerator  
Front windshield wiper with washer  
Safety glass  
Ceiling light  
Internal and external rear-view mirrors  
12 V (\*) power supply  
Automatic master switch  
Steps on the right and left sides  
(\*) Only available in closed cabins

### ENGINE 865B

FPT F4HE9687C  
Turbocharged, diesel  
Dry air filter with primary and secondary safety elements  
Air pre-filter with cyclonic dust ejector

### 80 A alternator

Swing-up hood, diesel

### HYDRAULIC SYSTEM

Hydraulic system with load sensor, closed center  
9-section control valve  
Hydraulic control for all functions:  
blade lifting (right and left side), circle turn, side shift of the circle, wheel lean, frame articulation, blade side shift and pitch, front and rear accessories  
Diagnostics center with 8 quick couplers  
Hydraulic axial piston pump  
Hydraulic engine fan

### BRAKES

Multidisk oil-bathed service brakes with nitrogen accumulator safety system  
Disk parking brake integrated into the transmission with warning light

### TIRES

14" 3-pieces rim / 17,25 x 25 - 12L - G2 tubeless

### OTHERS

Standard tool kit  
Drawbar / Standard circle

### AXLES

Conventional differential with brakes on 4 wheels and differential locking with electrohydraulic mechanism (rear axle)

### STEERING

Hydrostatic steering with integrated emergency system

### INSTRUMENTS

Electronic Information Center  
Indicators/gauges:  
Tachometer  
Direction selected F/N/R  
Transmission modes - automatic/manual  
Selected gear  
Engine cooling temperature  
Fuel level  
Transmission oil temperature  
Hydraulic oil temperature  
Hourmeter  
Fuel consumption  
Engine diagnostics  
Transmission diagnostics

### INDICATOR LIGHTS:

Low fuel level  
Floodlights  
High beam  
Brake pressure  
Main alert  
Parking brake

### SOUND ALERTS:

Warning alert  
Emergency alert  
Reversing alert

### ELECTRICAL SYSTEM

Lights  
Front headlight with direction indicators (2)  
Rear brake light and direction indicators (2)  
Rear work light on top of the cabin (2)  
Front work light on top of the cabin (2)  
24 V system (Two 12 V batteries 12 V / 750 CCA)  
Electronic system monitoring  
Horn  
Hourmeter  
Reverse alarm

### TRANSMISSION

ZF transmission of torque conversion type with lock up (also functions as Direct Drive), Powershift, 6 forward speeds and 3 reverse speeds, automatic gear shift, emergency electrical failure device (Limp-Home)

**All ROPS/FOPS cabins are certified in accordance with the SAE J1040 (ROPS) and SAE J231 (FOPS) standards.**

## OPTIONS

### CAB

Closed high cab (fixed front window)  
Closed high cab (front flip-down window)  
Sunshade(front and rear)

### OTHERS

Air conditioner for closed cab  
Fire extinguisher  
Windshield washer and lower windshield wipers  
Rear windshield washer and wipers  
Radio  
Tandem lock device  
Rear fogger

### DRAWBAR

Drawbar / Heavy Duty circle

### FRONT ATTACHMENT

Dozer Blade  
Push plate  
5 tooth front scarifier  
6 additional teeth for the front ripper  
Dozer blade float electrovalve  
Front counter weight  
Lighting on dozer blade

### BLADE

3,658 x 622 x 22 mm blade  
3,962 x 671 x 22 mm blade  
4,267 x 671 x 22 mm blade

-304.8 mm right blade extension  
-304.8 mm left blade extension

### REAR ATTACHMENT

Medium ripper with 3 large teeth and 5 small teeth  
2 additional large teeth and 4 additional small teeth  
Rear pull hook  
Support for lifting the machine

### WORK LIGHTS

2 work lights behind the blade  
2 work lights mounted in front of the moldboard  
2 work lights on the front attachment

### LOCK/FL OATING/ANTI-SHOCK - MOLDBOARD AND CIRCLE

Moldboard lifting cylinder lock valve  
Moldboard float electrovalve (includes the lock valve)  
Anti-shock electrovalve with 2 accumulators for the moldboard  
Anti-shock electrovalve with 3 accumulators for the moldboard and circle

### SEAT / SEATBELT

Extra quality vinyl mechanical suspension seat  
Mechanical suspension fabric seat  
Pneumatic mechanical suspension fabric seat (3") 76.5 mm seatbelt

### OPTIONAL EXTRAS

Revolving safety light

### Luxury toolbox

Toolbox without tools, with support, mounted on the rear frame  
Slow movement symbol  
Electric pump for filling tires  
Support for spare tire

### TIRES AND MOUNTED RIMS

#### TUBELESS TIRES

9" Rim - single piece / 14x24 tire - 12L - G2  
10" Rim - 3 pieces / 14x24 tire - 12L - G2  
13" Rim - single piece / 17.5x25 tire - 12L - L2  
14" Rim - 3 pieces / 17.5x25 tire - 16L - L3

#### TIRES WITH TUBES

9" Rim - single piece / 14x24 tire - 12L - G2  
10" Rim - 3 pieces / 14x24 tire - 12L - G2

#### RADIAL TUBELESS TIRES

9" Rim - single piece / 14x24 tire - 12L - L2  
XGLA2 RADIAL

10" Rim - 3 piece / 14x24 tire - 12L - L2

XGLA2 RADIAL

#### RIMS

9" Rim - single piece with valve  
10" Rim - 3 pieces with valve  
13" Rim - single piece with valve

14" Rim - 3 pieces with valve

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**CASE**  
CONSTRUCTION



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