

**GRADERS**  
**865B VHP**

**CASE**  
CONSTRUCTION



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# GRADERS

## 865B VHP

### TECHNOLOGICAL INNOVATION FOR HIGH PERFORMANCE AND EXCELLENT RESULTS

Case has a commitment to its customers to produce results. For this very reason we are constantly investing in technology, engineering techniques and 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.

### CAB

The cab offers a larger field of vision, more comfort and a more comfortable interior for the operator.

The roll-away moldboard plough provides effortless cutting resulting in lower fuel consumption and longer component life span.

### PERFORMANCE

The 865B comes equipped with low fuel consuming, high-power, high torque engines. These factors all combine to provide optimum performance.



### TRANSMISSION

The transmission 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.

# GRADERS

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### ENGINE

#### More power with better economy

Series 865B Graders are supplied with an easy-to-operate, FPT Triple Horse Power Tier 3, 220 HP engine.



### TRANSMISSION

#### Flexibility for improved all-round efficiency

Case offers ZF type of transmission with torque converter lock-up on the 865B. 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.



### 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.

### TRANSMISSION WITH AUTOMATIC AND MANUAL MODE

Another great advantage of this transmission is the option of operating in either automatic or manual mode. Automatic mode offers the operator increased comfort and easier gear changes.

#### “Limp-Home”

In the event of a transmission control failure, 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.

### 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

The 865B 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 20° 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. It also comes 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 one 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 as the machine needs force and not flow, this preserves the engine. The 865B has a variable flow axial piston pump and is also fitted with a 9-section closed centre hydraulic distributor located in a protected area under the operating platform. The 865B 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. They 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.

### MOLDBOARD: VERSATILITY IN IMPROVING PRODUCTIVITY

The 865B Grader moldboard has a high cutting capacity and is recognised as the best on the market. Made from score resistant high carbon content steel, the moldboard has a multi-radius Roll-Way profile that facilitates operations and minimises mechanical load. Due to its shape which induces material roll-off. The result is lower fuel consumption and a greater component life span. The blade circle has an unrestricted 360° rotation angle which offers a multitude of operational choices.

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### CAB

#### More visibility - improved comfort - better productivity

The 865B Motor Grader's feature a ROPS/FOPS cab with a rounded glassed-in area providing great visibility all round.

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.



### BEST IN CLASS 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.



When the unexpected occurs, you need to know your equipment is protected. At Case Construction we understand the importance of your machinery being in good working order when it counts.

ProCover is designed to help keep your equipment working well beyond the manufacturer's base warranty period while taking away the concerns of the cost and inconvenience of mechanical failure.

## WHAT ARE THE ADVANTAGES OF PROCOVER?

### PEACE OF MIND

Provides protection beyond the Manufacturer's Base Warranty Period.

### FLEXIBLE OPTIONS

Plans can be customised to meet individual needs.

### DEPENDABLE SERVICE

Eligible repairs completed by an authorised Case Construction Dealership and their trained service technician's using genuine OEM parts & lubricants.

### TRANSFERABLE PROTECTION

New Equipment Plans may be transferred to a new owner at no charge

## COVERAGE

- STANDARD PROTECTION PLAN 3 Years / 5000 Hours**  
 Additional years/hours can be purchased. Please contact your local Case Construction dealer for further information.



# STANDARD PROCOVER PLUS PROTECTION PLAN CONSTRUCTION EQUIPMENT MASTER PARTS SCHEDULE

This plan provides coverage for the components listed below when a failure occurs due to a defect in material or workmanship, and may provide coverage for additional components not listed when the damage is caused by or resulting from a covered failure of a listed component.

### PREMIER COMPONENTS COVERED

ENGINE AND ALL INTERNAL LUBRICATED COMPONENTS WITHIN	TRANSMISSIONS/AXLES/HYDROSTATICS	ELECTRICAL	HYDRAULICS
Accessory Gears	Axle Housing	Alternator	Accumulator And Related Relief Valve
Air Intake Hose	Axle Shaft	Gauges	Brake Accumulator
Camshaft	Clutch Discs (Wet Only)	Horn	Brake Pressure Sensor
Camshaft Bearings	Clutch Plates (Wet Only)	Indicators	Brake Pump, Brake Valve
Camshaft Drive Gear	Control Rods	Instruments	Differential Lock Valve
Catalytic Converter	Counter Shaft Clutch	Electronic Joysticks	Fan Pumps And Motors
Charge Air Cooler	Differential Housing	Electric Motors	Hydraulic Cylinders
Cold Start Enrichment Systems	Differential Pinion Gear / Ring Gear	Factory Installed Telematics	Hydraulic Hoses and Piping
Connecting Rods & Bearings	Drive Axle Hub	Sensors	Hydraulic Motors
Crankshaft Bearings & Gear	Drive Shaft Support Bearing	Solenoid Valves	Hydraulic Oil Coolers
Crankshaft Including Front And Rear Crankshaft Seals	Drive Shaft with Universal Joints	Starter And Starter Solenoid	Hydraulic Pumps
Cylinder Heads/ Head Gaskets	Electronic Transmission Controller and Valve	Switches	Hydraulic Reservoir
Cylinder Liners	Enclosed Oil Immersed Chains and Sprockets	Traction Control System	Hydraulic Valves
Diesel Exhaust Fluid Tank and Dispensing System	External Oil Lines	Voltage Regulator	Internal O-Rings and Bonded Washers
Diesel Particulate Filter	Filler Tubes (Transmission)	Wiring Harnesses	Pilot Control
EGR System Manifold	Final Drive Pinion	Wiring Harnesses Exclusions	Pressure Reducing Valves
Electronic Engine Control Module	Final Drive Planetary Gears	Rubbing, Chafing, Loose Or Corroded Connections	Unloading Valves
Engine Block	Front Wheel Drive Sensors	<b>FACTORY INSTALLED HEAT AND AIR CONDITIONING</b>	<b>STRUCTURAL</b>
Engine Mounts And Supports	Hydraulic Drive / Travel Motor	Accumulator	Backhoe Booms
Engine Oil Cooler	Hydraulic Drive Pump	Clutch	Backhoe/Excavator Dipper Sticks
Engine Speed Controls, Linkages, and Cables	Hydraulic Transmission-Control Valve	Compressor	C Frame
Exhaust Manifold and Muffler	Hydrostatic Motor	Condenser	Car Body
Fan And Fan Drive	Hydrostatic Transmission Charge Pump	Dryer	Chassis
Filter Mount	Hydrostatic Transmission Pump	Evaporator	Circle Frame
Flywheel, Ring Gear	Hydrostatic/Hydraulic Pump Drives	Expansion Valve	Engine Frame
Front And Rear Engine Covers And Seals	Internal Lubricated Clutch Housings	Heater Core	Equipment Frame
Front Damper	Internal Transmission Control Linkage	Hoses	Excavator Booms
Fuel Lines	Internal Wet Service Brakes	Pulley	Falling Object Protection Structure (FOPS)
Fuel Tank	MFWD Axle/Differential Assembly including Driveshaft and U Joint	Seals & Gaskets	Forklift Masts
Fuel Transfer Pump & Gasket	Planetary Gear Carrier	Temperature Control Programmers and Valves	Inner and Outer Dipper Arms of the Extendable Boom (Backhoe Loader)
Injection Pump	Pneumatic Valves	<b>OPERATOR AREA</b>	Main Frame
Injectors	Rotary Hydraulic Manifold	Covers and Panels	Rollover Protection Structure (ROPS)
Intake and Exhaust Manifold And Gaskets	Splitter Drive/Drop Box	Exterior/Interior Door/Panel Latches, Hinges & Struts	Swing Frame
Oil Filler Tube	Steering Clutches (Wet)	Exterior/Interior Moldings	Swing Tower Castings (Backhoe Loader)
Oil Lines	Swing Motor And Swing Gear Box	Knobs for Switches and Handles	Track Frame
Oil Pan And Gasket	Torque Converter	Mirrors	Wheel Loader/Skid steer Loader Arms
Oil Pump	Torque Converter Pump	Seat Frame & Suspension	
Pistons & Rings	Transfer Drive		
Pre-Cleaner/Air Cleaner Housing	Transmission Case		
Pressure/Temperature Sensors & Sending Units	Transmission Gears, Bearings, & Shafts		
Pulleys	Transmission Pump		
Radiator	Travel & Swing Sections (only) Of Main Control Valve		
Rocker Arm Assembly	Travel Control Valve		
Selective Catalytic Reduction System	Turntable Bearing		
Thermostats	Undercarriage Roller And Idler Seals And Bearings		
Timing Gears	Undercarriage Tensioners		
Turbocharger And Gasket	<b>UNDERCARRIAGE EXCLUSIONS:</b>		
Valve Cover And Gasket	Sprocket, Tracks, Pads, Bolts, Chains, Or Any Failure Due To Wear, Or Breakage Caused By Wear		
Water Piping			
Water Pumps			

# GRADERS 865B VHP

## ENGINE – VHP

Model \_\_\_\_\_ FPT F4HE9687C,  
Tier 3 certified, compliant w/ EPA regulations  
Electronic control \_\_\_\_\_  
Type \_\_\_\_\_ 4-stroke, turbocharged, and air to air cooled  
Cylinders \_\_\_\_\_ 6, in-line  
Bore/Stroke \_\_\_\_\_ 4.09 in x 5.17 in  
(104 mm x 132 mm)  
Displacement \_\_\_\_\_ 409 in3 (6.7 L)  
Fuel injection \_\_\_\_\_ Common rail  
Fuel \_\_\_\_\_ Diesel  
Cooling \_\_\_\_\_ Liquid  
Horsepower @ 2200 RPM - SAE J1995: Gross 193/205/220 hp (144/153/164 kW)  
Net 178/190/205 hp (133/142/153 kW)  
Maximum torque @ 1500 RPM: 612/649/686 ft-lb (830/880/930 N-m)

## DRIVETRAIN

Rear axle \_\_\_\_\_ Graziano, planetary  
Differential \_\_\_\_\_ Hydraulic lock, operator controlled  
Inboard brakes \_\_\_\_\_ Wet disc  
Number of discs / brake \_\_\_\_\_ 5  
Brake surface area \_\_\_\_\_ 2,220 in2 (14 326 cm2)  
**Tandems:**  
Type \_\_\_\_\_ Welded plate  
Oscillation \_\_\_\_\_ 20° each way  
Front axle \_\_\_\_\_ High strength, welded steel  
Oscillation \_\_\_\_\_ 15.3° each direction  
Wheel lean \_\_\_\_\_ 20° left / right  
Tires – standard \_\_\_\_\_ 14.0 x 24 12PR XGLA Michelin  
Rims \_\_\_\_\_ 1-piece  
9 in x 24 in (227 mm x 610 mm)  
Transmission type: \_\_\_\_\_  
Torque converter lockup (also functions as Direct Drive) Powershift,  
electronic shift change control, automatic, and without inching pedal, for  
progressive advancing  
Sump \_\_\_\_\_ Integral  
Speeds \_\_\_\_\_ 6 forward/3 reverse  
Shifting \_\_\_\_\_ Single lever, bump style, automatic electronic control  
Diagnostics \_\_\_\_\_ On-board

## DRIVETRAIN (CONT.)

**Speeds**  
Forward: \_\_\_\_\_ mph (km/h)  
1<sup>st</sup> \_\_\_\_\_ 3.4 (5.4)  
2<sup>nd</sup> \_\_\_\_\_ 5 (8.1)  
3<sup>rd</sup> \_\_\_\_\_ 7.7 (12.4)  
4<sup>th</sup> \_\_\_\_\_ 11.9 (19.2)  
5<sup>th</sup> \_\_\_\_\_ 17.8 (28.7)  
6<sup>th</sup> \_\_\_\_\_ 27.4 (44.1)  
Reverse: mph (km/h)  
1<sup>st</sup> \_\_\_\_\_ 3.4 (5.5)  
2<sup>nd</sup> \_\_\_\_\_ 8.1 (13.1)  
3<sup>rd</sup> \_\_\_\_\_ 18.8 (30.3)

## ELECTRICAL

Voltage \_\_\_\_\_ 24 Volts, negative ground  
Alternator \_\_\_\_\_ 90 amp  
Batteries \_\_\_\_\_ (2) Low-maintenance 1010 CCA – 100 Ah (20 hr rate)  
Work lights: Headlights (2); Turn signals, front/rear;  
Stop/tail (2); Rear mounted floods (2);  
Front mounted floods (2).  
Backup alarm \_\_\_\_\_ Standard

## OPERATOR ENVIRONMENT

ROPS/FOPS cab – SAE J231, ISO 3449;  
Adjustable operator's console; Adjustable cloth suspension seat w/ 3 in (76 mm) retractable seat belt; Safety glass; Dome light; Inside rearview mirror;  
Outside rearview mirrors; Cup holder; Storage tray; 12-volt outlet; Radio ready – 12 Volt; Electrical master switch – automatic; Heater/defroster/pressurizer; Air conditioner; Sound suppression; Cab doors – left/ right; Steps – left/right; Steering wheel; Windshield wipers – front and rear; Windshield washer – front; Window defroster – rear.

## OPERATING WEIGHT

W/ 14 ft (4.27 m) moldboard, 17.5-25 tires, front counterweight, 175 lb (79 kg) operator and full fuel: \_\_\_\_\_ 33,796 lb (15 330 kg)  
Weight, front axle \_\_\_\_\_ 10,141 lb (4 600 kg)  
Weight, rear axle \_\_\_\_\_ 23,655 lb (10 730 kg)  
Blade pressure \_\_\_\_\_ 20,626 lb (9 356 kg)

## HYDRAULICS

System design \_\_\_\_\_ Closed center, load sensing  
Hydraulic pump \_\_\_\_\_ Load sensing piston pump,  
variable displacement, pressure and flow compensated  
Rated flow @ 2200 RPM \_\_\_\_\_ 49 gpm (187 L/min)  
Control valve \_\_\_\_\_ 9 section  
Side shift and pitch \_\_\_\_\_ Hydraulic  
Saddle \_\_\_\_\_ 5 positions  
Diagnostic quick couplers \_\_\_\_\_ 8

## SERVICE CAPACITIES

Engine \_\_\_\_\_ 4.4 gal (17.5 L)  
w/ filter change \_\_\_\_\_ 4.7 gal (18.5 L)  
Fuel \_\_\_\_\_ 90 gal (341 L)  
Transmission \_\_\_\_\_ 5.0 gal (23 L)  
w/ filter change \_\_\_\_\_ 6.6 gal (25 L)  
Radiator \_\_\_\_\_ 10.5 gal (40 L)  
Hydraulic reservoir \_\_\_\_\_ 24 gal (90 L)  
Hydraulic system \_\_\_\_\_ 50.2 gal (190 L)  
Circle gearbox \_\_\_\_\_ 3 qt (2.8 L)  
Rear axle center \_\_\_\_\_ 11.6 gal (44 L)  
Total axle \_\_\_\_\_ 11.6 gal (44 L)  
Tandem case, each \_\_\_\_\_ 15.9 gal (60 L)

## OTHER SPECIFICATIONS

**Steering:**  
Type \_\_\_\_\_ Hydrostatic power steering  
Turns – lock-to-lock \_\_\_\_\_ 4.75  
Pump capacity @ 2200 engine RPM: \_\_\_\_\_ 11.1 gpm (41.8 L/min)  
Relief pressure \_\_\_\_\_ 2200 psi (151 bar), Integral w/ priority valve  
Cylinder (2): \_\_\_\_\_ 2.0 in bore x 11.85 in stroke x 1.0 in rod dia.  
(50.8 mm x 301.0 mm x 25.4 mm)  
Supplemental steering \_\_\_\_\_ Integral  
**Articulation:**  
Type \_\_\_\_\_ Hydraulic actuated – w/ lock valve  
Range \_\_\_\_\_ 25° left /right  
Controls \_\_\_\_\_ Hydraulic

## MAINFRAME

Type \_\_\_\_\_ All welded box  
**Front section:**  
Size \_\_\_\_\_ 10.0 in x 11.73 in (254 mm x 298 mm)  
Weight – each side \_\_\_\_\_ 124.7 lb-ft (172.8 kg/m)  
**Rear section:**  
Size \_\_\_\_\_ 4.75 in x 11.75 in (121 mm x 299 mm)  
Weight – each side \_\_\_\_\_ 55.6 lb-ft (84.0 kg/m)

## DRAWBAR

Type: “A” frame welded construction with center mounted circle turn motor  
Ball and circle \_\_\_\_\_ Shim adjustable

## ATTACHMENTS

**Scarifier**  
Type \_\_\_\_\_ Front mounted  
Width of cut \_\_\_\_\_ 46 in (1 168 mm)  
Teeth \_\_\_\_\_ 5  
Optional \_\_\_\_\_ 11  
Tooth spacing \_\_\_\_\_ 9.0 in (229 mm)  
Optional \_\_\_\_\_ 4.5 in (114 mm)  
Lift above ground \_\_\_\_\_ 20.75 in (527 mm)  
Max. penetration \_\_\_\_\_ 12.5 in (318 mm)  
Weight \_\_\_\_\_ 1,256 lb (570 kg), Includes front attachment group

**Push Block**  
Type \_\_\_\_\_ Front mounted  
Weight \_\_\_\_\_ 1,084 lb (492 kg)

**Rear Ripper**  
Type \_\_\_\_\_ Parallel  
Ripper teeth \_\_\_\_\_ 3  
Optional \_\_\_\_\_ 5

# SPECIFICATIONS

## MOLDBOARD

Type \_\_\_\_\_ High-carbon steel  
Shape Involute curve  
Length \_\_\_\_\_ 14 ft 0 in (4 267 mm)  
Height \_\_\_\_\_ 23.6 in (600 mm)  
Thickness \_\_\_\_\_ 0.875 in (22 mm)  
End bits \_\_\_\_\_ 2, interchangeable  
Blade pitch positions: Normal pitch \_\_\_\_\_ 47°  
Minimum pitch \_\_\_\_\_ 42°  
Maximum pitch \_\_\_\_\_ 87°  
Blade shift: Right \_\_\_\_\_ 27.0 in (686 mm)  
Left \_\_\_\_\_ 21.0 in (533 mm)  
Max. bank cutting angle: Right \_\_\_\_\_ 90°  
Left \_\_\_\_\_ 90°  
Max. ground penetration \_\_\_\_\_ 28 in (711.2 mm)  
Max. lift above ground \_\_\_\_\_ 17.5 in (444.5 mm)

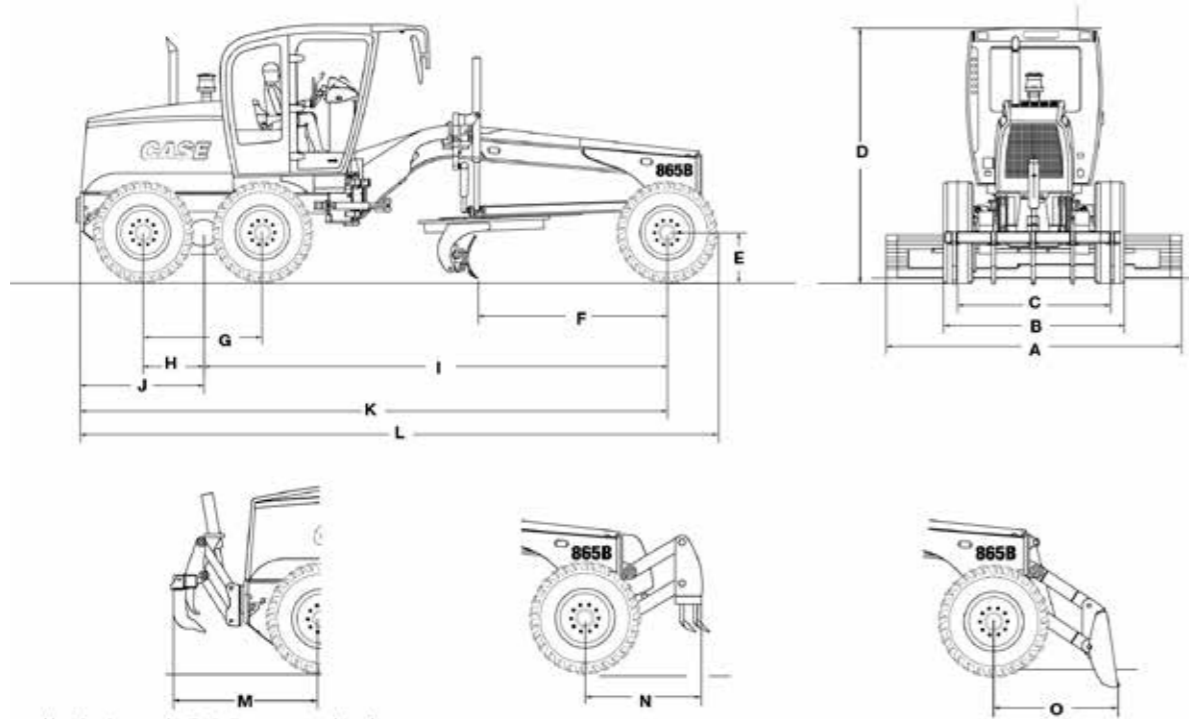
## CIRCLE

Type \_\_\_\_\_ Welded construction  
Diameter: Max. outside \_\_\_\_\_ 69.0 in (1 752 mm)  
Vertical member \_\_\_\_\_ 63.0 in (1 600 mm)  
Rotation \_\_\_\_\_ 360°  
Speed \_\_\_\_\_ 1.2 RPM (7.2°/second)  
Drive \_\_\_\_\_ Hydraulic motor  
Type \_\_\_\_\_ Roller geroter  
Displacement \_\_\_\_\_ 15.26 in3/Rev. (0.25 L/Rev.)  
Rated hydraulic flow \_\_\_\_\_ 19.8 gpm (75 L/min)

Scarifier teeth \_\_\_\_\_ 5  
Optional \_\_\_\_\_ 9  
Width of cut \_\_\_\_\_ 86.4 in (2 195 mm)  
**Lift above ground:**  
Ripper teeth \_\_\_\_\_ 20.38 in (518 mm)  
Scarifier teeth \_\_\_\_\_ 27.67 in (703 mm)  
**Max. penetration:**  
Ripper teeth \_\_\_\_\_ 17.22 in (437 mm)  
Scarifier teeth \_\_\_\_\_ 9.43 in (252 mm)  
Weight \_\_\_\_\_ 2,167 lb (985 kg)

**Dozer Blade**  
Type \_\_\_\_\_ Front mounted  
Width \_\_\_\_\_ 109 in (2 762 mm)  
Height \_\_\_\_\_ 37.5 in (953 mm)  
Lift above ground \_\_\_\_\_ 24.5 in (622 mm)  
Penetration \_\_\_\_\_ 6.5 in (165 mm)  
Weight \_\_\_\_\_ 2,568 lb (1 165 kg), Includes front attachment group

**Counterweight**  
Type \_\_\_\_\_ Front mounted  
Weight \_\_\_\_\_ 1,084 lb (492 kg)



Line drawings are for illustrative purpose only and may not be exact representation of unit.

## DIMENSIONS

### 865B VHP

A	Blade width	14 ft 0 in (3 962 mm)
B	Distance between outside edges of tires	8 ft 2 in (2 452 mm)
C	Wheel tread – rim 9 x 24 – one piece rim	6 ft 11 in (2 106 mm)
D	Height to top of cab – high profile	10 ft 11 in (3 340 mm)
D	Height to top of cab – low profile	10 ft 4 in (3 150 mm)
E	Tire radius – when static	2 ft 0 in (610 mm)
F	Blade base	8 ft 5 in (2 562 mm)
G	Distance between tandem axles	5 ft 2 in (1 594 mm)
H	Distance between tandem center and wheel	2 ft 7 in (797 mm)
I	Wheelbase	20 ft 5 in (6 219 mm)
J	Distance between tandem center and rear end of machine	5 ft 5 in (1 650 mm)
K	Distance between front axle and rear end of machine	25 ft 10 in (7 869 mm)
L	Overall length – without ripper or front attachment	28 ft 0 in (8 534 mm)
M	Distance between rear tires and rear ripper	6 ft 8 in (2 028 mm)
N	Distance between front tires and front scarifier	5 ft 0 in (1 520 mm)
O	Distance between front tires and front dozer blade	5 ft 4 in (1 626 mm)
	Outside tire turning radius	23 ft 9 in (7 250 mm)
	Ground clearance – rear axle	14.9 in (380 mm)
	Ground clearance – front axle	24.5 in (622 mm)

NOTE: All units equipped with 14.0 x 24-10 PR tires, ROPS cab with heater and A/C, std. battery, full fuel, 175 lb (79 kg) operator. Specifications per ISO 7134.





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**CASE CONSTRUCTION EQUIPMENT**  
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**NOTE:** CASE provides specific outfits for various countries and many optional fittings (OPT). The illustrations on this or other leaflets may relate to standard or optional fittings. Please consult your CASE dealer for any information in this regard and any possible updating on components. CNH Industrial reserves the right to modify machine specifications without incurring any obligation relating to such changes.

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