

# **865B VHP**

TIER 3 CERTIFIED



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FPT F4HE9687C. Model Tier 3 certified Compliant w/ EPA regulations effective January 2011 Electronic control 4-stroke, turbocharged Type and air-to-air cooled Cylinders 6-cylinder in-line Bore/Stroke 4.09 x 5.17 in (104 x 132 mm) Displacement 409 in<sup>3</sup> (6.7 L) Fuel Diesel Fuel injection Common Rail Cooling Liquid

Horsepower @ 2200 RPM – SAE J1995: Gross 193/205/220 hp (144/153/164 kW)

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)

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Rear axle	Graziano, planetary
Differential	Hydraulic lock,
	operator controlled
Inboard brakes	Wet disc
Number of discs/br	ake 5
Brake surface area	2,220 in <sup>2</sup> (14 326 cm <sup>2</sup> )
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
	TL G2 Firestone

Rims 1-piece 9 in x 24 in (227 mm x 610 mm)

Transmission type:

Direct drive countershaft Powershift w/ electronic shift control and inching pedal

Pump flow @ 2200 RPM	29.5 gpm (112 L/min)
Sump	Integral
Speeds	8 forward/4 reverse
•	Single lever, bump style matic electronic control
Diagnostics	On-board
Speeds: Forward:	mph (km/h)

Diagnostics	On-board
Speeds:	
Forward:	mph (km/h)
1st	2.7 (4.3)
2nd	3.7 (6.0)
3rd	5.2 (8.4)
4th	7.3 (11.8)
5th	10.4 (16.7)
6th	14.4 (23.1)
7th	20.2 (32.5)
8th	27.8 (44.8)
Reverse:	mph (km/h)
1st	2.5 (4.0)
2nd	5.0 (8.0)
3rd	9.8 (15.8)
4th	19.3 (31.0)

# 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; Delphi AM/FM Radio w/ CD; Cab doors – left/right; Steps – left/right; Steering wheel; Windshield wiper – front; Windshield washer – front.

# **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	23,656 lb (10 730 kg)
Blade pressure	18,519 lb (8 400 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 apm (187 L/min)		

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 w/ filter change	4.4 gal (17.5 L) 4.7 gal (18.5 L)
Fuel	90 gal (341 L)
Transmission w/ filter change	5.0 gal (23 L) 6.6 gal (25 L)
Radiator	10.5 gal (40 L)
Hydraulic reservoir	24.0 gal (90 L)
Hydraulic system	50.2 gal (190 L)
Circle gearbox	0.75 gal (2.8 L)
Rear axle center	11.6 gal (44 L)
Total axle	11.6 gal (44 L)
Tandem case, each	18.41 gal (69 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 2,200 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	
Туре	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)
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Front section:		Shape	Involute curve
Size	10.0 in x 11.73 in	Length	14 ft 0 in (4 267 mm)
Weight - each side	(254 mm x 298 mm) 124.7 lb·ft	Height	23.6 in (600 mm)
	(172.8 kg/m)	Thickness	0.875 in (22 mm)
Rear section:		End bits	2, interchangeable
Size Weight – each side	4.75 in x 11.75 in (121 mm x 299 mm) 55.6 lb·ft (84.0 kg/m)	Blade pitch positions: Normal pitch Minimum pitch Maximum pitch	47° 42° 87°
DRAWBAR		Blade shift: Right Left	27.0 in (686 mm) 20.9 in (533 mm)
Type:  "A" frame welded construction with center mounted circle turn motor		Max. bank cutting angle: Right Left	90°
Ball and circle	Shim adjustable	Max. ground penetration	28 in (711.2 mm)
		Max. lift above ground	17.5 in (445 mm)

MOLDBOARD

High-carbon steel

Type

CIRCLE	1
Type	Welded construction
Diameter:	
Max. outside	68.9 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 in <sup>3</sup> /Rev. (0.25 L/Rev.)
Rated hydraulic flow	19.8 gpm (75 L/min)

# **ATTACHMENTS**

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

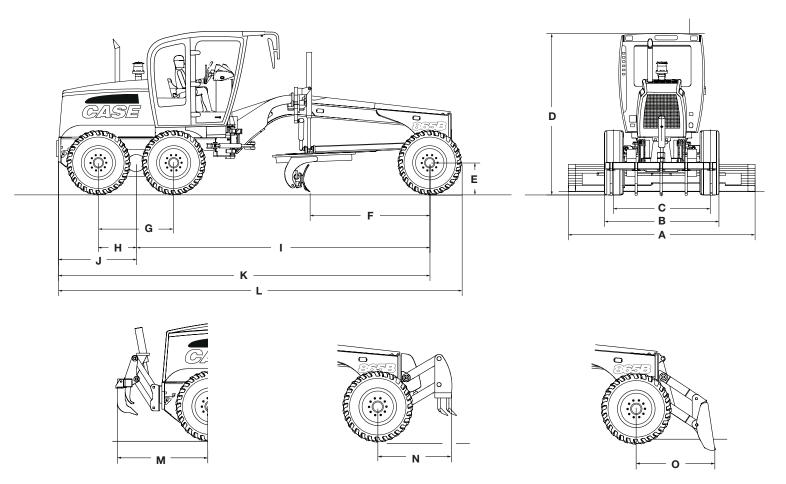
PUSH BLOCK	
Type	Front mounted
Weight	1,084 lb (492 kg)

REAR RIPPER	
Туре	Parallel
Ripper teeth Optional	3 5
Scarifier teeth Optional	5 9
Width of cut	86.4 in (2 195 mm)
Lift above ground: Ripper teeth Scarifier teeth	20.38 in (518 mm) 27.67 in (703 mm)
Max. penetration: Ripper teeth Scarifier teeth	17.22 in (437 mm) 9.43 in (252 mm)
Weight	2,167 lb (985 kg)

DOZER BLADE	
Туре	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 In	2,568 lb (1 165 kg) ncludes front attachment group

COUNTERWEIGHT	
Type	Front mounted
Weight	1,084 lb (492 kg)

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

DIMENSIONS	
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 – 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	24.5 in (622 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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#### STANDARD EQUIPMENT

# **OPERATOR ENVIRONMENT**

See page 1

#### **ENGINE**

FPT F4HE9687C turbocharged diesel Tier 3 certified Temperature controlled cooling fan Charge air cooler Air intake grid heater Common rail electronic fuel injection Hydraulic driven cooling fan Auto idle

#### **DRIVETRAIN**

Hydraulic differential lock

# **HYDRAULICS**

Closed center, load sensing hydraulic system Controls for all functions 9 section control valve Hydraulic moldboard side shift and pitch 5-position saddle 14 ft x 23.6 in (4 267 x 600 mm) moldboard 8 hydraulic diagnostic quick couplers Front and rear piping for hydraulic attachment

#### **TIRES**

14.0 x 24-12 PR

# INSTRUMENTS

Analog displays/Gauges:

Fuel level; Engine coolant temperature; Transmission oil temperature; Hydraulic oil temperature.

Monitor Functions:

Hour meter; Engine speed; Travel speed; Current gear selection; FNR indication; Clock; Trip computer; Fuel consumption; Fuel level percentage; Oil pressure; Coolant temperature; Engine oil temperature; Transmission oil temperature; Hydraulic oil temperature; Turbocharger air temperature; Differential lock indicator; Gear selection indicator; Engine diagnostics; Transmission diagnostics; System voltage; Error reporting; Warning prompts; Indicator warning lamps - main warning, parking brake, low brake pressure, high beams, turn signals, hazard lights, low fuel.

# **ELECTRICAL**

2 - Heavy-duty batteries - 1010 CCA Electronic Systems Monitor Horn Alternator - 90 amp Backup alarm

Headlights

2 - Turn signals front

2 - Tail lights with turn signals, brake lights Flood lights - cab mounted

# **TELEMATICS**

CASE SiteWatch™ Telematics - includes hardware and a 3-yr Advanced data subscription

#### **OPTIONAL EQUIPMENT**

#### **MOLDBOARDS**

12 ft x 22 in (3 658 x 559 mm), involute curve 13 ft x 23.6 in (4 267 x 600 mm), involute curve Extensions - 2 ft (610 mm) Front Float Control Moldboard Float Control Lift cylinder/side shift accumulators Lift cylinder accumulators

### **OPERATOR ENVIRONMENT**

Front windows openable with rear window defroster Lower front wiper/washers Rear windshield washer Air suspension seat Sunshade

#### **TIRES**

13.0 x 24-12 PR 14.0 x 24-10 PR 14.0 x 24-12 PR 14.0 x R24 XGLA 14.0 x R24 Snoplus 16.0 x 24-12 PR 17.5 x 25-12 PR 17.5 x 25-16 PR 17.5 x R25 XTLA 17.5 x R25 Snoplus

# ELECTRICAL

2 - Front mounted working lights 2 - Floodlights at moldboard

2 - Floodlights at articulation Snow wing lighting package

# **OTHER**

Bidirectional engine cooling fan Cold weather package Fire extinguisher Strobe light Tool box - without tools Deluxe tool box - with tools Tire inflator kit Spare wheel Spare wheel support Slow moving vehicle sign Rear pull hook

# **ATTACHMENTS**

Front pull hook Front counterweight Front dozer blade Front scarifier Front push plate Front support and lift cylinder Rear ripper

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