

## ENGINE

<b>865B</b>	
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 (6.700 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 (164kW)*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

<b>Rear axle</b>	
Vertical ground clearance	380 mm
Differential	Conventional planetary with 100% electro-hydraulic lock
* Brakes	Disk, bathed in oil
Number of disks per brake	5

## Tandem

Type	Welded Plate (2.204 x 631 x 201 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
Tires	14 x 24 12L-G2 tubeless
Rims	10" (3 pieces)

\* SAE J150 3450 (brake performance)

## HYDRAULIC SYSTEM

Type	Closed center, load sensing
Hydraulic pump	Axial piston pump, variable flow, fitted with <i>load sensing system</i>
Rated flow	186 l/min (49 gpm) a 2.200 rpm
Control valve	9 sections
Quick couplers for diagnostics	8

## TRANSMISSION

<b>Brand</b>		<b>ZF</b>
Model	ZF TC LOCK UP 6WG – 160	
Type	Torque converter <i>lockup</i> (also functions as <i>Direct Drive Powershift</i> , 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
1st	4,4	4,6
2nd	6,8	11,0
3rd	10,5	26,0
4th	16,2	-
5th	24,4	-
6th	37,6	-

## ELECTRICAL SYSTEM

Power	24 V
Alternator	80 A
Batteries	2x100 Ah – low maintenance
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)
	Monitoring of electronic systems

## STEERING

Type	Hydrostatic
Steering wheel turns (lock to lock)	4,75
Pump capacity at 2.200 rpm	42 l/min (11,5 gpm)
Pressure release valve	2.200 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 system)
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	26 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)	60 l

Notes: \*1 Gears 1st, 2nd, F e 1st, 2nd R

\*2 Gears 3rd, 4th, e 3rd R

\*3 Gears 5th, 6th

## VARIOUS

Front counterweight	Without any frontal attachment and with rear ripper
Saddle	5 positions

## OPERATING WEIGHT

With a 3,962 mm blade, operator weigh 75 kg, full tank and standard equipment	15.587 kg
Front axle weight	4.905 kg
Rear axle weight	10.682 kg
Blade load	8.341 kg

## FRAME

Type	All-welded box
Front section	
Size	254 x 298 mm
Weight	172,8 kg/m
Rear section	
Size	121 x 299 mm
Weight	84 kg/m

## DRAWBAR

Type	“A” frame weldedconstruction with center mounted turn motor
Connection with the frame	Shim adjustable spherical joint

## CIRCLE

Type	Welded construction
Maximum outside diameter	1.752,6 mm
Rotation	360°
Speed	1,2 rpm (7,2°/second)
Drive	Hydraulic
Type	Gear box
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	3.,962 mm (13')
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 adn pitch	Hydraulic type

## SCARIFIER

Type	Front mounted
Cutting width	1.168 mm
Teeth	5 (opcionally, 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	2.195 mm
Weight	985 Kg
Ripper teeth	3 large + 5 small or 5 large + 9 small

Lift above ground	
Ripper teeth	518 mm
Scarifier teeth	703 mm
Maximum penetration	
Ripper teeth	437mm
Scarifier teeth	252 mm

## DOZER BLADE

Type	Front mounted
Width	2.762 mm
Height	953 mm
Lift above ground	622 mm
Penetration	165 mm
Weight	1.165 kg

## 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  
Sunshade(front and rear)

(\*) Only available in closed cabins

### Engine 865B

FPT F4HE9687B  
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  
Movable saddle with 5 service positions and hydraulic lock  
3,962 x 671x 22 mm, 13' Blade  
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

10" 3-pieces rim / 14 x 24 – 12L –G2 tubeless

### Others

Standard tool kit  
Drawbar / Standard circle

### Axles

Conventional differential with brakes on 4 wheels and differential locking with electro-hydraulic 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 DeClutch activation indicator  
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

## OPTIONAL EQUIPMENT

### Cab

Closed high cab (fixed front window)  
Closed high cab (front flip-down window)  
Closed low cab (fixed front window)  
Closed low cab (front flip-down window)

### Others

Ventilation box for closed cab  
Heater for closed cab  
Air conditioner for closed cab  
Sound insulation 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  
4,267 x 671 x 22 mm blade  
–304.8 mm right blade extension  
–304.8 mm left blade extension  
Heavy Duty cutting edge - extra

### 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/floating/anti-shock -Moldboard and circle

Moldboard lifting cylinder lock valve  
Moldboard float electrovalve (includes the lock valve)  
Anti-shock electrovalve with 2 accumulatorsfor 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

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.**

### 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

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

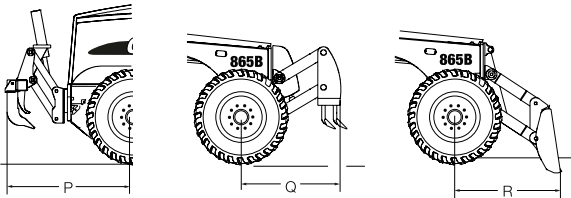
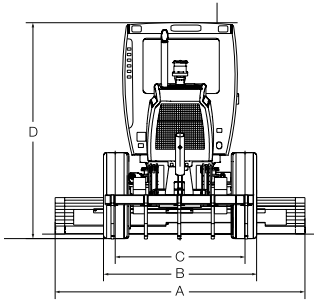
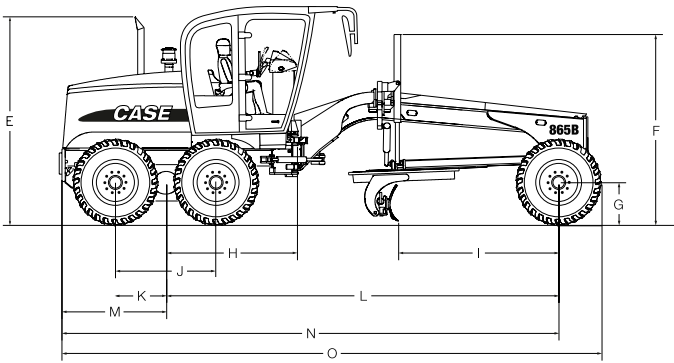
### Radial tubeless tires

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

## DIMENSIONS



<b>A</b> - Tread gauge	2.106 mm
<b>B</b> - Tread width	2.452 mm
<b>C</b> - Blade width	3.962 mm
<b>D</b> - Height to top of cab	
High-profile cab	3.340 mm
Low-profile cab	3.140 mm
<b>E</b> - Height of top of exhaust	3.323 mm
<b>F</b> - Height to top of blade lift cylinder	3.047 mm
<b>G</b> - Tire static radius	610 mm
<b>H</b> - Distance between tandem center and the frame articulation pin	1.958 mm
<b>I</b> - Distance between the front axle and the blade	2.562 mm
<b>J</b> - Distance between the center of the rear tires	1.572 mm
<b>K</b> - Distance between tandem center and the wheel	786 mm
<b>L</b> - Wheelbase	6.219 mm
<b>M</b> - Distance between tandem center and the rear part of the equipment	1.649 mm
<b>N</b> - Distance between the front wheel axle and the rear part of the equipment	7.868 mm
<b>O</b> - Overall length	8.534 mm
<b>P</b> - Distance between the rear tires and the ripper	2.028 mm
<b>Q</b> - Distance between the front tires and the ripper	1.520 mm
<b>R</b> - Distance between the front tires and the dozer blade	1.626 mm
Turning radius (outside the tires)	7.250 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.



INTERNATIONAL

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NOTE: Standard and optional fittings can vary according to the demands and specific regulations of each country. The illustrations may include optional rather than standard fittings - consult your Case dealer. Furthermore, CNH reserves the right to modify machine specifications without incurring any obligation relating to such changes.

Conforms to directive 98/37/CE **CE**

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**CASE**  
CONSTRUCTION