



ENGINE

865B	
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	6.71 (6.700 cm3)
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
Notes:	*1 Gears 1st, 2nd, F e 1st, 2nd R *2 Gears 3rd, 4th, e 3rd R *3 Gears 5th, 6th

POWERTRAIN

Rear axle	
Vertical ground clearance	380 mm
Differential	Conventional planetary with 100% electro-hydraulic lock
* Brake Discs, 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
Tyres	14 x 24 12L-G2 tubeless
Rims	10" (3 pieces)
* SAE J150 3450 (brake performance)	

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	

HYDRAULIC SYSTEM

Type	Closed center, load sensing
Hydraulic pump	Axial piston pump, variable flow, fitted with load sensing system
Rated flow	186 l/min @ 2.200 rpm
Control valve	9 sections
Quick couplers for diagnostics	8



Switch console with gear shifter lever

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 st	4,4 4,6
2 nd	6,8 11,0
3 rd	10,5 26
4 th	16,2 -
5 th	24,4 -
6 th	37,6 -

STEERING

Type	Hydrostatic
Steering wheel turns (lock to lock)	4,75
Pump capacity	42,l/min @ 2.200 rpm
Pressure release valve	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

VARIOUS

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

OPERATING WEIGHT

With a 3,962 mm blade, operator weighing	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



Specious Cabin For All Round Visibility



"A" Frame Type Draw Bar

DRAWBAR

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

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



Better Visibility While Working

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 845B

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

Tyres

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 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
Hour Meter
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
Hour Meter
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 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 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 tyres
Support for spare tyre

TYRES AND MOUNTED RIMS

TUBELESS TYRES

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

TYRES WITH TUBES

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

RADIAL TUBELESS TYRES

9" Rim - single piece / 14x24 tyre - 12L - L2
XGLA2 RADIAL
10" Rim - 3 piece / 14x24 tyre - 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

SCARIFIER

Type	Front mounted
Cutting width	width 1.168 mm
Teeth	5 (optionally, 11)
Spacing	
between teeth	229 mm (114 mm, optional)
Lift above ground	527 mm
Maximum Penetration	318 mm
Weight	570 kg

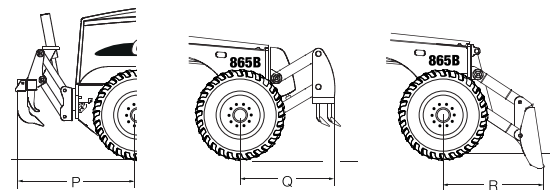
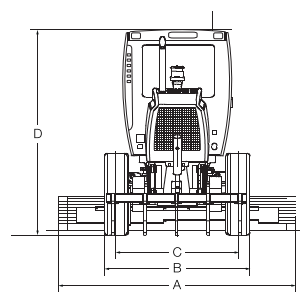
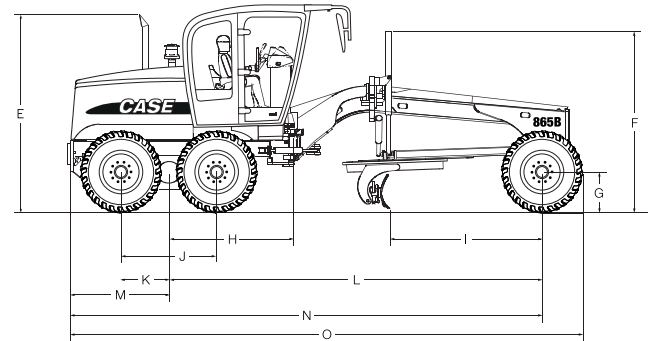
REAR RIPPER

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



DIMENSIONS

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

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

Authorised Dealer

865B - 0113

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.

For further information, contact:

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SET HIGH GRADES AT WORK