

ENGINE

845B	
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	6.7l (6.700 cm ³)
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)	140 hp (104 kW)
Low Curve	140 hp (104 kW)*1
High Curve	163 hp (119kW)*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	380 mm
Differential	Limited slip
* 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	9" (single piece)

* 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

Brand		ZF
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	25,7
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	37,3 l/min (9,9 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

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

*2 Gears 3rd, 4th, 5th, 6th F e 3rd R

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	180 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 3.658 mm blade, operator weigh full tank and standard equipment	75 kg 14.605 kg
Front axle weight	4.496 kg
Rear axle weight	10.109 kg
Blade load	7.645 kg

FRAME

Type	All-welded box
Front section	
Size	254 x 298 mm
Weight	153,3 kg/m
Rear section	
Size	121 x 299 mm
Weight	78,3 kg/m

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 F4HE9684L
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

DRAWBAR

Type	“A” frame welded construction 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	Motor reductor
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	3.658 mm (12")
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 adn pitch	Hydraulic type

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
3,658 x 622 x 22 mm, 12' 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

9" single piece rim / 14 x 24 – 12L – G2 tubeless

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	2.185 mm
Ripper teeth	5 small or 3 large + 5 small

Lift above ground	
Ripper teeth	505 mm
Maximum penetration	
Ripper teeth	350 mm
Weight	625 kg

DOZER BLADE

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

Others

Standard tool kit
Drawbar / Standard circle

Axles

“ Limited Slip ” Proportional torque differential (anti-skid system)

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
Reverse alarm

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
Acoustic 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

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
Heavy Duty cutting edge - extra

Rear attachment

Medium ripper with 3 large teeth and 5 small teeth
Light ripper with 5 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 tires
Support for spare tire

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.

Tires and mounted rims

Tubeless tires

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

Tires with tubes

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

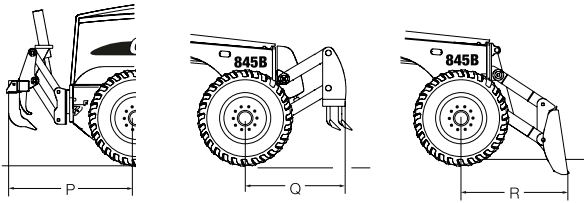
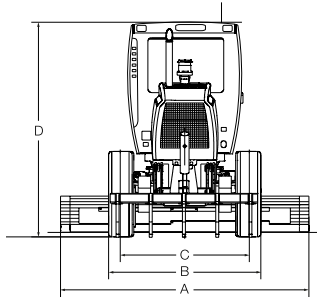
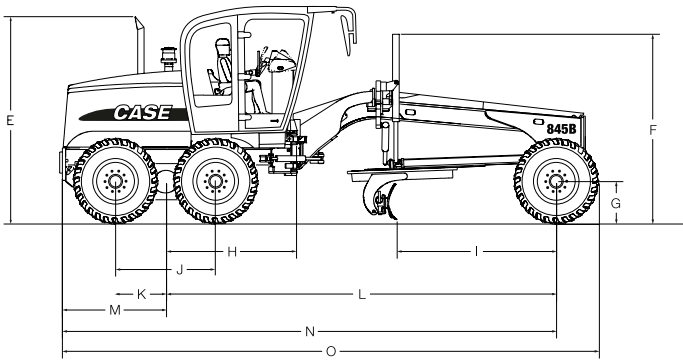
Radial tubeless tires

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
13" Rim - single piece with valve
10" Rim - 3 piece with valve
14" Rim - 3 piece with valve

DIMENSIONS



A - Tread gauge	2.108 mm
B - Tread width	2.499 mm
C - Blade width	3.658 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 - Tire 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 tires	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 wheel axle and the rear part of the equipment	7.869 mm
O - Overall length	8.554 mm
P - Distance between the rear tires and the ripper	2.028 mm
Q - Distance between the front tires and the ripper	1.520 mm
R - Distance between the front tires and the dozer blade	1.620 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**

CASE
CONSTRUCTION