

B-SERIES MOTOR GRADERS

885B SPECIFICATIONS

ENGINE

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 (6728 cm³)
Horsepower at 2.200 rpm
Gross (SAE J1995 Gross)
 Low Curve _____ 220 hp (164 kW)*1
 High Curve _____ 234 hp (175 kW)*2
Net (SAE J1349)
 Low Curve _____ 205 hp (153 kW)*1
 High Curve _____ 219 hp (163 kW)*2
Maximum torque at 1.500 rpm
Gross (SAE J1995 Gross)
 Low Curve _____ 924 Nm*1
 High Curve _____ 984 Nm*2
Net (SAE J1349)
 Low Curve _____ 864 Nm*1
 High Curve _____ 924 Nm*2

POWERTRAIN

Rear axle
 Vertical ground clearance _____ 359 mm
 Differential _____ Conventional planetary with 100%
 electro-hydraulic lock
 * Brakes _____ Disk, bathed in oil
 Number of disks per brake _____ 6
Tandem
 Type _____ Welded Plate (2.204 x 631 x 200.5 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
 * SAE J150 3450 (brake performance)

HYDRAULIC SYSTEM

Type _____ Closed center, load sensing
 Hydraulic pump _____ Axial piston pump, variable flow,
 fitted with load sensing system
 Rated flow _____ 186 l/min (49 gpm) at 2200 rpm
 Control valve _____ 9 sections

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	4.5	4.8
2 nd	6.9	11.7
3 rd	11.1	27.4
4 th	16.9	-
5 th	25.9	-
6 th	38.8	-

ELECTRICAL SYSTEM

Power _____ 24 V
 Alternator _____ 120 A
 Batteries _____ 2x100 Ah – low maintenance

STEERING

Type _____ Hydrostatic
 Steering wheel turns (lock to lock) _____ 4.75
 Pump capacity at 2.200 rpm _____ 41.8 l/min
 Pressure release valve _____ 2200 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 valve)
 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 _____ 34 l
 with a change in filter _____ 36 l
 Engine water cooling system _____ 40 l
 Hydraulic oil tank _____ 94.6 l
 Total hydraulic system _____ 180 l
 Circle turn housing _____ 2.8 l
 Tandem case (each) _____ 69 l

Notes: *1 Gears 1st, 2nd F e 1st, 2nd R
 *2 Gears 3rd, 4th, 5th, 6th F e 3rd R

SPECIFICATIONS

SADDLE

Locking system _____ Two hydraulic cylinders
Saddle positions _____ 5

FRAME

Type _____ Box Section
Front section _____
Size _____ 254 x 298 mm
Rear section _____
Size _____ 121 x 299 mm

DRAWBAR

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

CIRCLE

Type _____ Welded construction
Maximum outside diameter _____ 1752.6 mm
Rotation _____ 360°
Speed _____ 1.2 rpm (7.2°/second)
Drive _____ Hydraulic motor
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 _____ 3658 mm (12 ft) / 3962 mm (13 ft) / 4267 mm (14 ft)
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 and pitch _____ Hydraulic type

FRONT SCARIFIER

Cutting width _____ 1168 mm
Teeth _____ 5 (optional, 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 _____ 2340 mm
Ripper teeth _____ 3 / 5 optional
Scarifier Teeth _____ 5 (9 option)
Lift above ground _____
Ripper teeth _____ 518 mm
Maximum penetration _____
Ripper teeth _____ 437 mm
Weight _____ 850 kg

DOZER BLADE

Width _____ 2762 mm
Height _____ 953 mm
Lift above ground _____ 622 mm
Penetration _____ 165 mm
Weight _____ 1165 kg

885B OPERATING WEIGHT

With a 4267 mm blade, operator weigh 75 kg, full tank

885B VHP	Weight (kg)
Basic machine	16708
Basic machine with ripper and front counterweight	18050

885B ACCESSORIES WEIGHT

885B VHP	Weight (kg)
Front counterweight	492
Heavy push plate	800
Light push plate	492