B-SERIES MOTOR GRADERS

885B SPECIFICATIONS

ENGINE

Brand Model TypeElectronic Common Rai 4 Cycle, Direct Injection, Turbocha	
Cylinders	
Bore and stroke	104 x 132 mm
Engine displacement	
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

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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	
Туре	_ 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	d external side wall 19 mm
Front axle	
Туре	High-resistance welded steel
Oscillation	20° in each direction
Wheel lean	15.3° in each direction
	580 mm
* SAE J150 3450 (brake per	formance)

HYDRAULIC SYSTEM

Туре	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 Model Type Torque conve Powershift, electronic sh	rter lockup (also func hift change control, at	
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

Туре	Hydrostatic
Steering wheel turns (lock to lock)	
Pump capacity at 2.200 rpm	41.8 l/min
Pressure release valve	2200 psi (151 bar)
integra	ted 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 with a change in filter	17.5 l 18.5 l
Fuel	341
Transmission	34
with a change in filter	36 I
Engine water cooling system	40 I
Hydraulic oil tank	94.6
Total hydraulic system	180 I
Circle turn housing	2.8 l
Tandem case (each)	69 I

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

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

CIRCLE

Туре	Welded construction
Maximum ouside 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)
Nº of supports in phenolic resin	4

BLADE

Туре	High-carbon steel
Form	Involute curve
Width	3658 mm (12 ft) / 3962 mm (13 ft) / 4267 mm (14 ft)
Height (curved p	orofile) 671 mm
Thickness	22 mm
Cutting edge	2, interchangeable
Blade pitch posi	tions
Normal pitch	47°

Minimum pitch Maximum pitch Blade side shift	42° 87°
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 Cutting width	Parallelogram 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

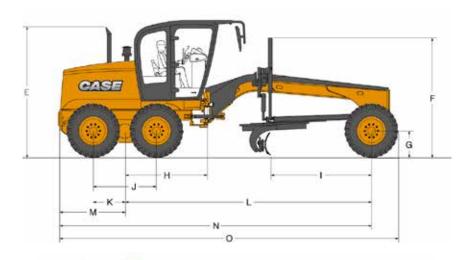
885B VHP	Weight (kg)	
Basic machine	16708	
Basic machine with ripper and front counterweight	18050	

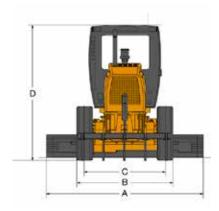
885B ACCESSORIES WEIGHT

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

B-SERIES MOTOR GRADERS

GENERAL DIMENSIONS







		845B VHP	865B VHP	885B VHP
A	Blade width	3658 mm	3962 mm	4267 mm
В	Tread width	2499 mm	2452 mm	2654 mm
C	Tread gauge	2108 mm	2108 mm	2174 mm
D	Height on top of the cab	3340 mm	3340 mm	3340 mm
Ε	Height of top of exhaust	3323 mm	3323 mm	3323 mm
F	Height to top of blade lift cylinder	3047 mm	3047 mm	3047 mm
G	Tire static radius	610 mm	610 mm	610 mm
H	Distance between tandem center and the frame articulation pin	1958 mm	1958 mm	1958 mm
Ī	Distance between the front axle and the blade	2562 mm	2562 mm	2562 mm
J	Distance between the center of the rear tires	1572 mm	1572 mm	1624 mm
K	Distance between tandem center and the wheel	786 mm	786 mm	812 mm
L	Wheelbase	6219 mm	6219 mm	6219 mm
Μ	Distance between tandem center and the rear part of the equipment	1650 mm	1650 mm	1661 mm
N	Distance between the front wheen axle and the rear part of the equipment	7868 mm	7869 mm	7880 mm
0	Overall length	8554 mm	8534 mm	8534 mm
Ρ	Distance between the rear tires and the ripper	2028 mm	2028 mm	2040 mm
Q	Distance between the front tires and the scarifier	1520 mm	1520 mm	1520 mm
R	Distance between the front tires and the dozer blade	1626 mm	1626 mm	1645 mm
	Turning radius (outside the tires)	7250 mm	7250 mm	7289 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.

STANDARD AND OPTIONS

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 (*) Only available in closed cabins FPT F4HE9687C Turbocharged, diesel Dry air filter with primary and secondary safety elements Air pre-filter with cyclonic dust ejector 80 Å 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

BRAKES

Multidisk oil-bathed service brakes with nitrogen accumulator safety system Disk parking brake integrated into the transmission with warning light TIRES 14" 3-pieces rim / 17,25 x 25 - 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 Hourmeter Fuel consumption Engine diagnostics 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**

Liahts

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

TRANSMISSION

ZF transmission of torgue conversion type with lock up (also functions as Direct Drive), Powershift, 6 forward speeds and 3 reverse speeds, automatic dear shift. emergency electrical failure device (Limp-Home)

All ROPS/FOPS cabins are certifi ed in accordance with the SAE J1040 (ROPS) and SAE J231 (FOPS) standards.

OPTIONS

Hydraulic axial piston pump

Hydraulic engine fan

CAB

Closed high cab (fixed front window) Closed high cab (front flip-down window) Sunshade(front and rear) OTHERS Air conditioner for closed cab Fire extinguisher Windshield washer and lower windshield wipers Rear windshield washer and wipers Radio Tandem lock device Rear fogger DRAWBAF 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 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 **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/FL OATING/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 EXT** 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** 9" Rim - single piece/14x24 tire-12L-G2 10" Rim - 3 pieces / 14x24 tire - 12L - G2 13" Rim - single piece / 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 TIRE 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