MOTOR GRADERS Series C



GR 865C



ENGINE

Model	FPT 6.7L
Туре	Electronic common rail fuel system,
Water	cooled, 4 Cycle, Direct injection, Open combustion
	chamber, Turbocharged, Charge air cooled.
	Tier IV
Cylinders	6
Bore/Stroke	4.09in x 5.17 in (104 mm x 132 mm)
Displacement	409 Cubic Inch (6.7 liters)
Horsepower at 2.	200 rpm
Gross (SAE J1995	j Gross)
Low Curve	144 kW (193 hp)
Mid Curve	153 kW (205 hp)
High Curve	164 kW (220 hp)
Net (SAE J1349)	
Low Curve	133 kW (178 hp)
Mid Curve	142 kW (190 hp)
High Curve	153 kW (205 hp)
Maximum torque	at 1.500 rpm
Gross (SAE J1995	j Gross)
Low Curve	612 ft.lb (830 Nm)
Mid Curve	649 ft.lb (880 Nm)
High Curve	686 ft.lb (930 Nm)
Net (SAE J1349)	
Low Curve	548 ft.lb (743 Nm)
Mid Curve	581 ft.lb (788 Nm)
High Curve	615 ft.lb (832 Nm)

POWERTRAIN

Rear axle		
Vertical ground clearance		14.9" (380 mm)
Differential		
* Brakes		
Number of disks per brake		
Tandem		
Туре	Welded Plate (2204 x	: 631 x 200.5 mm)
Oscillation	20	o in each direction
Command chain pitch		50.8 mm
Thickness of the internal ar	nd external side wall	19 mm
Front axle		
Туре		CNH LA
Oscillation		15°
Wheel lean		20°
Vertical ground clearance		22.8" (580 mm)
* SAE J150 3450 (brake pe	erformance)	

HYDRAULIC SYSTEM Т

Туре	Piston pump, variable displacement
	Pressure and flow compensated, Load sensing
Hydraulic pump	Rexroth
Rated flow	49.0 GPM (186 LPM) @ 2200 RPM
Control valve	HUSCO, LOAD SENSING 9 SECTIONS

TRANSMISSION

Brand / Model	ZF1	C LOCK UP 6WG-160
Туре	Full powe	r shift torque converter
Shift mod	lulation, downshift protect	on, reversals inhibited,
Parking brake 15" (380 mm) dry disk, Electronic shift control mounted in R.H. console, 24V bump shifter control.		
Gears		6 Forward 3 Reverse
Speeds - km/h	Forward	Reverse
1st 2nd	5.2 3.3	4.9 2.0
3rd	2.1	0.8
4th	1.4	-
5th	0.5	-
6th	0.6	-

ELECTRICAL SYSTEM Ρ

Power	24 V
Alternator	BOSCH - 90 A
Batteries	2x100 Ah – low maintenance

STEERING

Hydrostatic power steering Туре Steering wheel turns (lock to lock) 4,5 turns (fast); 3,2 turns (slow) 11.1 GPM (41.8 LPM) @ 2200 engine RPM Pump capacity 22530 PSI (175 bar) Integral with priority valve Pressure Cylinders 2

ARTICULATION

Туре	Hydraulic actuated (with lock valve)
Angle	25° left/right
Controls	Hydraulic

CAPACITIES (REFILL)

Engine with and w/o filter	16/15 lt
Fuel DEF (urea refill)	360 lt
Transmission with and w/o filter	25/26 lt
Engine water cooling system	16 lt
Hydraulic oil tank	90 lt
Total hydraulic system	148 lt
Rear axle center	44 lt
Tandem case (each)	42 lt

SADDLE

Two cylinders actuated by an electric solenoid. Control valve regulated by a pressure reducing Locking system valve @ 600 psi (4137 kPa).

FRAME

Туре	Box section
Size - Rear section	327 x 220.5 mm
Size - Front section	298 x 258 mm

DRAWBAR

"A" frame welded construction with center mounted circle turn motor. Shim adjustable at ball and circle

CIRCLE

Туре

Туре		Welded construction
Maximum ouside diam	eter	69.0" (1752.6 mm)
Rotation/Speed	360°/ 1.2 RPM	(7.2 degrees per second)
Rated hydraulic flow		
N° of supports in phenolic resin 4		4

BLADE/MOLDBOARD

Туре	Standard
Form	involute curve
Width	3658 mm / 3962 mm / 4267 mm
Height (curved profile)	622 mm
Thickness	875" (22mm)
Cutting edge	2 interchangball
Blade pitch positions - Normal p	itch 47°
Minimum pitch	42°
Maximum pitch	87°

Blade side shift

Right	49.5" (1257 mm)
Left	43.5" (1105 mm)
Maximum bank-cutting angle (left and right)	90°
Ground penetration (max.)	28" (711.2 mm)
Lift above ground (max.)	17.5" (444.5 mm)
Blade side shift and pitch	Hydraulic type

REAR RIPPER

Туре	Parallelogram
Cutting width	86.4" (2195 mm)
Ripper teeth	3/5 optional
Scarifier teeth	5/9 optional
Lift above ground - Ripper teeth	20.38" (518 mm)
Maximum penetration - Ripper teeth	17.22" (437 mm)

865C OPERATING WEIGHT

With a 3658 mm blade, operator weigh 75 kg, full tank

865C VHP	Weight (kg)
Basic machine	15481
Front couterweight	492



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.

DIMENSIONS

		865C VHP
Α	Blade width	3962 mm
В	Tread width (single rim)	2495 mm
С	Tread gauge (single rim)	2074 mm
D	Height on top of the cab	3200/3400 mm
Е	Height of top of exhaust	3323 mm
F	Height to top of blade lift cylinder	3047 mm
G	Tire static radius	610 mm
Н	Distance between tandem center and the frame articulation pin	1958 mm
1	Distance between the front axle and the blade	2562 mm
J	Distance between the center of the rear tires	1572 mm
Κ	Distance between tandem center and the wheel	786 mm
L	Wheelbase	6219 mm
М	Distance between tandem center and the rear part of the equipment	2064 mm
Ν	Distance between the front wheen axle and the rear part of the equipment	7868 mm
0	Overall length	8957 mm
Р	Distance between the rear tires and the ripper	2028 mm
Q	Distance between the front tires and the scarifier	1520 mm
R	Distance between the front tires and the dozer blade	1626 mm
	Turning radius (outside the tires)	7250 mm

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 **ENGINE 865C** FPT 6.7 It Turbocharged, diesel Dry air filter with primary and secondary safety elements Air pre-filter with cyclonic dust ejector 90 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

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 Hydraulic axial piston pump Hydraulic engine fan

OPTIONS*

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 ATTACHME 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

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 OTHER 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

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

REAR ATTACHMENT

Electric pump for filling tires

Support for spare tire

Engine diagnostics

Transmission diagnostics

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 **OPTIONAL EXTRAS** Revolving safety light Luxury toolbox Toolbox without tools, with support, mounted on the rear frame Slow movement symbol

TIRES AND MOUNTED RIMS TUBELESS TIRES

9" Rim - single piece/14x24 tire 10" Rim - 3 pieces / 14x24 tire 13" Rim - single piece / 17.5x25 tire 14" Rim - 3 pieces / 17.5x25 tire **RADIAL TUBELESS TIRES** 10" Rim - 3 piece / 14x24 tire XGLA2 RADIAL **RIMS** 9" Rim - single piece with valve 10" Rim - 3 pieces with valve

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

*All the options are subject to the local availability.



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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 Industrial reserves the right to modify machine specifications without incurring any obligation relating to such changes.

Conforms to directive 2006/42/EC

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