MOTOR GRADER 865**B VHP**





GRADER THAT GIVES UNLIMITED LEVELLING

CaseCE.com
EXPERTS FOR THE REAL WORLD
SINCE 1842

B-SERIES MOTOR GRADER SPEC SHEETS

ENGINE

Brand	
Model	F4HE9687C
	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 x stroke	104 x 132 mm
Engine displacement	6.7
Horsepower at 2200 RPM	
Gross (SAE J1995 Gross)	
Low curve	
Medium curve	
High curve	220 hp (164kW)***
Net (SAE J1349)	
Low curve	178 hp (133 kW)*
Medium curve	190 hp (142 kW)**
High curve	205 hp (153kW)***
Maximum torque at 1500 R	РМ
Gross (SAE J1995 Gross)	
Low curve	. 830 Nm*

Low curve	630 INITI
Medium curve	880 Nm**
High curve	930 Nm***
Net (SAE J1349)	
Low curve	743 Nm*
Medium curve	788 Nm**
High curve	832 Nm***

Note:

 * 1st and 2nd Gears / ** 3rd and 4th Gears / *** 5th and 6th Gears

POWERTRAIN

Rear axle

Vertical ground clearance	380 mm
Differential	Hydraulic Lock
Brakes	. Disc, bathed in oil
Number of discs per brake	5
Tandem	
Туре	Welded Plate
Oscillation	20° in each direction
Front axle	
Туре	High-resistance welded steel
Oscillation	20° in each direction
Wheel lean	15.3° in each direction
Vertical ground clearance	<u>6</u> 22 mm
Tyres	14 x 24 12L-G2 tubeless
Rims	

TRANSMISSION

Model	.ZF TC LOCK UP 6WG – 160	
Туре	Powershift, electronic shift change control.	
	Torque converter, automatic lockup.	
Gears	.6 forward / 3 reverse	
Self-diagnostic systemOn board		
	R	

Speeds - km/h	Forward	Reverse
1 st	5.4	5.5
2 nd	8.1	13.1
3rd	12.4	30.3
4 th	19.2	-
5 th	28.7	-
6 th	44.1	-

CIRCLE

Туре	Welded construction
Maximum ouside diameter	1.752,6 mm
Rotation	
Speed	1.2 rpm (7.2°/second)
Drive	Hydraulic
Туре	Motor reductor
Displacement	0,25 l/turn
Rated hydraulic flow	. 75 l/min
N° of supports in phenolic resin	4

STEERING

Туре	Hydrostatic
Steering angle	.42°
Steering wheel turns (lock to lock)	.4.75
Pump capacity at 2200 RPM	.41.8 l/min
Pressure release valve integrated	
with the priority steering valve	.151 bar
Cylinders	2
Supplemental steering	Integrated

ARTICULATION

Туре	Hydraulically activated
	(with a lock system)
Angle	25° to the left/right
Controls	Hydraulic

FRAME

Туре	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
Weight Rear section Size	172.8 kg/m 121 x 299 mm

DRAWBAR

Туре	"A" frame welded construction
	with center mounted turn motor
Connection with the frame	Shim adjustable spherical joint
Saddle	5 positions

HYDRAULIC SYSTEM

Туре	Closed center, load sensing
Hydraulic pump	Piston pump, variable displacement
Pressure and flow compensated	
Rated flow	. 186 L/min at 2200 RPM
Control valve	9 sections
Quick couplers for diagnostics	.8

ELECTRICAL SYSTEM

Power Alternator	
Batteries	
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
Electronic system monitoring	

B-SERIES MOTOR GRADER SPEC SHEETS

REFILL CAPACITIES

Engine Engine with a change in filter	
Fuel	
Transmission	25 I
Transmission with a change in filter	26
Engine water cooling system	40 I
Hydraulic oil tank	90 I
Rear axle centre	44 I
Circle turn housing	2.8
Tandem case (each)	69

BLADE

Front axle

Rear axle

Machine

Blade load

Form Width	
Height (curved profie)	
Thickness	.22 mm
Cutting edge	2, interchangeable
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

865B VHP

4.600 kg

10.730 kg

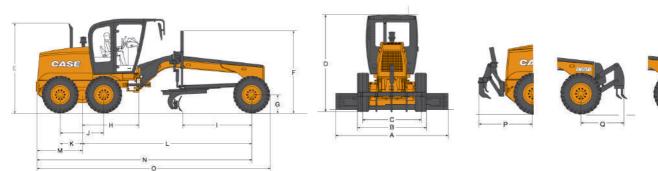
15.330 kg

8.341 kg

OPERATING WEIGHT

Standard equipment with standard blade, full fuel tank, coolant, lubricants and operator.

GENERAL DIMENSIONS



Α	Blade width	3.962	mm
B	Tread width	2.452	mm
С	Tread gauge	2.106	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
Η	Distance between tandem center and the frame articulation pin	1.958	mm
1	Distance between the front axle and the blade	2.562	mm
J	Distance between the center of the rear tyres	1.572	mm
Κ	Distance between tandem center and the wheel	786	mm
L	Wheelbase	6.219	mm
М	Distance between tandem center and the rear part of the equipment	1.650	mm
Ν	Distance between the front wheel axle and the rear part of the equipment	7.869	mm
0	Overall length	8.534	mm
Ρ	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
	Ground clearance – rear axle	380	mm
	Ground clearance – front axle	622	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.

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STANDARD

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

Turbocharged, diesel

- Dry air filter with primary and secondary safety elements Air pre-filter with cyclonic dust ejector
- Alternator
- Swing-up hood

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
- 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

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

OTHERS

- Drawbar / Standard circle

AXLES

- "Differential lock" torque differential

STEERING

- Hydrostatic steering with integrated emergency sýstem

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
- **Diagnostics DeClutch activation indicator** Transmission diagnostics

CONSTRUCTION

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

DOZER BLADE

- Width: 2.762 mm

- Height: 953 mm

- Weight: 1165 kg

NOTE: CASE provides specific outfits for various countries and many optional fittings (OPT). The

illustrations on this or other leaflets may relate to

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any possible updating on components. CNH Industrial

standard or optional fittings. Please consult your

- Type: Front mounted

- Lift above ground: 622 mm - Penetration: 165 mm

OPTIONS

CAB

- Air conditioned closed cabin

SCARIFIER

- Type: Front mounted
- Cutting width: 1.168 mm
- Teeth: 5
- Spacing between teeth: 229 mm Lift above ground: 527 mm

Level-4, Rectangle-1, D-4

Saket. New Delhi - 110017

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District Center, Commercial Complex

Standard and optional equipment shown can vary by country.

Corporate Identity Number: U29240DL1998PTC344616

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CASE NEW HOLLAND CONSTRUCTION EQUIPMENT (INDIA) PRIVATE LIMITED

- Maximum penetration: 318 mm Weight: 570 kg

REAR RIPPER - 865B VHP

- Type: Parallelogram
- Cutting width: 2.185 mm
- Ripper teeth: 5
- Lift above ground 505 mm Maximum penetration 350 mm
- Weight: 640 kg

REAR RIPPER & SCARIFIER

- 865B VHP - Teeth base: ripper 3 + scarifier 5

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- Lift above ground
 Ripper teeth: 518 mm
 Scarifier teeth: 703 mm
- Maximum penetration
- Ripper teeth: 437 mm - Scarifier teeth: 252 mm - Weight: 795 kg (845B) - Weight: 850 kg (865B)