

DOGLOC

B-SERIES 2 MOTOR GRADERS

865B | 885B



- 1842 CASE is founded.
- The first CASE portable steam engine road construction is born!
- The first factory-integrated loader/backhoe in the world: a CASE industry first.
- The first CASE 4-WD wheel loader, the W9, is introduced.
- CASE enters excavator market.
- Ride control on loader backhoes and skid steer loaders: another CASE first.

HERITAGE A TRADITION OF INDUSTRY FIRSTS



- 2011 All around visibility cab introduction on 800 series and FPT TIER III Engine installation ("B series")
- **2012** Torque converter introduction on flagship model 885B
- **2015** CASE graders enter the European market with the new T4 final /EU Stage IV models.
- 2022 Machine productvity and reliability improve with the introduction of the new CASE Graders B series 2
- 2022 C Series is launched with the T4 engine

MAIN REASONS TO CHOOSE THE B-SERIES 2

TORQUE CONVERTER LOCK-UP

The CASE transmission combines the torque converter's typical smoothness, for fine grading, with the direct drive solution for full power transfer.

LOAD-SENSING HYDRAULIC SYSTEM

Balanced flow for all applications and for simultaneous moldboard movements.

«A-SHAPE» FRAME

Optimised effort distribution in all conditions ensures a long operating life.

MULTI-RADIUS BLADE

CASE

Lower power absorption and optimised rolling effect.

REAR MOUNTED CAB

Best-in-class controllability and comfort: the operator is always in line with the working direction.

EASY ACCESS

The easy serviceability is in the CASE: all the main checks can be easily performed from ground level; all the service points are grouped and positioned to facilitate servicing.

VARIABLE POWER CURVE

The FPT Engine always delivers the power required for every task. On the 885B two power curves are available, while on the 865B three engine settings ensure even better performances.

EXTERNALLY DRIVEN CIRCLE TEETH

The external pinion is not subject to shocks while working in heavy grading, while the slewing ring's external teeth prevent the accumulation of residual material, extending the overall working life.

HIGH VERSATILITY

The wide variety of options enables every customer to tailor their grader to match the requirements of the most demanding applications.

TORQUE CONVERTER LOCK-UP The machine drives faster with no extra torque

The lock-up system overrides the torgue converter operation in machines featuring the B-Series' type of engine and transmission coupling. When it is activated, the lock turns the hydraulic coupling into a direct (rigid) coupling. The Lock-up system is automatically activated according to operating conditions, when the transmission electronics unit's torgue and engine speed readings reach preset values. The Lock-up is usually activated in travel applications where no extra torgue is required from the torgue converter and the machine runs at a higher speed.

LOAD-SENSING HYDRAULIC SYSTEM Highly responsive & precise control

The load-sensing hydraulic system helps maintain a balanced flow for all applications and for simultaneous moldboard movements. It ensures highly responsive and precise control, as well as easy and smooth operation. A directly activated axial piston pump only delivers the required amount of oil where it is needed, so that no power is wasted. The control valves ensure pressure compensation, enabling parallel lifting and lowering of the moldboard. A dedicated switch on the cab floor enables the operator to obtain maximum output from the hydraulic circuit independently from engine revolutions for faster reaction (Full Flow Mode).



MOLDBOARD PRECISION TECHNOLOGY

"A-SHAPE" FRAME

Longer working life

The durable front A-frame drawbar and high-strength circle provide outstanding stability. The A-frame drawbar features a heavy-duty boxed frame design that supports the circle with a wide stance, extending the life of the circle and drawbar components.



MULTI RADIUS BLADE

Productivity with less power

The CASE radius design of the reinforced involuted moldboard consists of three different radiuses. This enables a more efficient and continuous cutting mixing and rolling, and extends the life of the blade. The efficient mixing effect on the spread-out material improves the consistency and longevity of the road surface.



EXTERNALLY DRIVEN CIRCLE TEETH

Insensitive to shocks

CASE motor graders are designed with external circle teeth, which are easier to clean and provide a larger contact area. This prevents component wear and provides more leverage when turning the blade under load. As a result, there is no need for slip clutches or shear pins, which require repositioning or repairs.





ATTACHMENTS THE ART OF VERSATILITY



FRONT COUNTERWEIGHT



FRONT PUSH PLATE



RIPPER



FRONT DOZER BLADE

HIGH VERSATILITY

CASE offers a variety of versatile grader attachments and accessories, including:

- Front counterweight
- Ripper
- Scarifier
- Front push plate light 492kg
 heavy 800kg
- Front dozer blade

- Rear pull hook
- Additional lighting packages
- Lift cylinder accumulators
- Float control
- Moldboard extensions

VARIABLE POWER CURVE

for excellent performance

From the unique moldboard design that rolls a superior mix and the fuel-efficient, turbocharged Tier 3 engine that delivers operating speeds of up to 38,8-44,1 km/h (depending on model), to the spacious rear-mounted cab that provides exceptional visibility on the machine's working components, the CASE B-Series 2 motor graders are designed for productivity. For an even greater performance, Dual Power maximises operation at higher speeds thants to the double (885B) or triple (865B) engine curve, which flattens from the 4th gear.

EASY ACCESS

Maintenance made easy

When you invest in CASE equipment, you look for duration. We make it simple. CASE B Series 2 motor graders are no exception. From the one-piece, flip-up hood and reversible fan option that blows debris out of the cooler, to ground-level site gauges and service points, the machine is designed for easy daily maintenance. It's done in just a matter of minutes, so you can obtain the effective performance and long life you want from your machine.



MAINTENANCE



- Engine air filter
 Fuel tank refill
- 3. External circle teeth
- 4. Hydraulic test ports
 5. Tandem oscillation grease zerks
- 6. Dual batteries
- 7. Hydraulic oil level gauge
 8. Electric flip-up hood
- 9. Oil drain hose





CAB COMFORT RULES



MAR M

REAR MOUNTED CAB

Aligned with performance

The CASE front articulation design, unique in the industry, allows for the cab to be mounted further back on the machine. With this design, the operator remains in a centred position while the gooseneck is articulated, increasing visibility on the moldboard, circle, saddle and tires.

The front articulation enables the operator to see both the rear and front half of the machine without having to look to the side when the machine is articulated. In addition, it allows for a tight turning radius, ideal for working in cul-de-sacs and tight spaces.

MASSIVE CAB, MASSIVE COMFORT

Stress free operation

The Isomount cab reduces noise and vibration, and consequently operator fatigue. Couple that with a deluxe suspension seat with lumbar control and any operator will be not only comfortable, but more productive.

The sloping rear hood, breakaway heavy-duty side mirrors, and floor-to-ceiling glass with defrost rear window allow for outstanding visibility to the rear and to the front.

ENGINE		865B	885B	
Brand		FPT F4HE9687C	FPT F4HE9687K	
Туре		Electronic common rail fuel system, water co and charge a	oled, 4 cycle, direct injection, turbochargec	
Cylinders		6, in-l		
Bore/Stroke	mm	0, 11 104 x		
Displacement	l (cm ³)	6.7 (67		
Horsepower @ 2200 rpm	r (cm-)	0.7 (67	120)	
Gross (SAE J1995)				
Low Curve*	kW	144	164	
		193	220	
Imperial Metric	hp	193	220	
Medium Curve***	hp	153	223	
	kW	205	-	
mperial	hp		-	
Metric	hp	208	-	
High Curve**	kW	164	175	
Imperial	hp	220	234	
	hp	223	238	
Net (SAE J1349)		- 100	150	
Low Curve*	kW	133	153	
mperial	hp	178	205	
Metric	hp	181	208	
Medium Curve***	kW	142	-	
mperial	hp	190	-	
Metric	hp	193	-	
High Curve**	kW	153	163	
mperial	hp	205	219	
Metric	hp	208	222	
Max Torque @1500/1600 rpm				
Gross (SAE J1995)				
Low Curve *	Nm	830	924	
Medium Curve***	Nm	880	-	
High Curve**	Nm	930	984	
Net (SAE J1349)				
Low Curve	Nm	380	864	
Medium Curve***	Nm	788	-	
High Curve	Nm	930	924	
POWERTRAIN				
Rear axle				
Vertical ground clearance	mm	380	359	
Differential		Planetary with controlled differential hydraulic lock	Planetary with controlled differential hydraulic lock	
Brakes		Disk, bathed in oil		
Number of disks per brake		5	6	
Tandem		5	0	
Type	mm	Woldad Plata (220	4 x 631 x 200 5)	
Type Oscillation		Welded Plate (2204 x 631 x 200.5)		
Command chain pitch	mm	20° in each direction		
	mm	50.8 19		
Thickness of the internal and external side wall	mm	19		
HYDRAULIC SYSTEM			lead exercise	
Type		Closed centre, load sensing		
Hydraulic pump		Piston pump, variable displacement pressure and flow compensated, load sensing		
Rated flow	l/min(gpm)	186 (49)@ 2200 rpm		
Pressure cut off	bar	193		
Control Valve		9 sect	ions	

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

TRANSMISSION		865B	885B	
Make/Model		ZF TC LOCK UP 6WG – 160	ZF TC LOCK UP 6WG - 210	
Туре		Full Powershift, torque converter		
Gears		6 forward / 3 reverse		
Self-diagnostic system		On board		
Speeds (Forward/Reverse)				
st	km/h	5,2/5,5	4,5/4,8	
2nd	km/h	8,1/13,1	6,9/11,7	
Brd	km/h	12,4/30,3	11,1/27,4	
łth	km/h	19,2/-	16,9/-	
5th	km/h	28,7/-	25,9/-	
ôth	km/h	44,1/-	38,8/-	
ELECTRICAL SYSTEM				
Power		24	V	
Alternator		90		
Batteries		2x100 Ah - low		
STEERING				
уре		Hydro	static	
Steering wheel turns (lock to lock)		4.5/		
Pump capacity @ 2200 rpm	l/min	41		
Pressure release valve	psi(bar)			
Cylinders	polipal	2530 (175 integral with priority valve		
	SAE 1011,	2		
Supplemental steering	ISO5012	Integral with steering system after Supplemental steering		
Steering angle		42°		
ARTICULATION				
уре		Hydraulically activated (with a lock valve)		
Angle		25° to the left/right		
Controls		Hydraulic		
CAPACITIES				
ingine	I	1!	5	
Engine with filter	I	16		
Tuel	I	360		
ransmission		25 29		
ransmission with filter	I	26	31	
ngine water cooling system	I	32	2	
Hydraulic oil tank	I	90		
otal hydraulic system	1	148		
Circle turn housing	I	2.8		
Fandem case (each)		69		
ADDLE				
ocking system		Two cyl	linders	
Saddle positions		5		
FRAME				
Type - Front section		Box se	ection	
Size	mm	254 x		
ype - Rear section	11411	Beam (v		
Size	mm	220.5 x 327	220.5 X 327	
DRAWBAR				
уре		"A" frame welded construction with	centre mounted circle turn motor	
ype Connection with the frame		"A" frame welded construction with centre mounted circle turn motor Shim adjustable spherical joint		
			networkien	
ype		Welded co		
Maximum ouside diameter	mm	1752.6		
Rotation		36	0°	
Speed	rpm	1.	2	
Rotation Speed N° of supports in phenolic resin	rpm		2	

		0050	0058	
MOLDBOARD		865B	885B	
Туре		High-carbon steel Involute curve		
Form				
Width	mm	3962	4267	
Thickness	mm	_	2	
Cutting edge		2, interchangeable		
Blade pitch positions				
Normal pitch		47		
Minimum pitch		42°		
Maximum pitch		87	7°	
Blade side shift				
Right	mm	68	36	
Left	mm	53	33	
Maximum bank-cutting angle (left and right)		90°		
Ground penetration (max.)	mm	711.2		
Lift above ground (max.)	mm	444.5		
Blade side shift and pitch		Hydraulic type		
FRONT SCARIFIER				
Cutting width	mm	1168		
Teeth		5 (opt, 11)		
Spacing between teeth	mm	229 (opt ,114.5)		
Lift above ground	mm	527		
Maximum penetration	mm	318		
Weight	kg	570		
REAR RIPPER				
Туре		Parallelogram		
Cutting width	mm	2195 2340		
Ripper teeth		3 (opt, 5) 3 (opt, 5)		
Scrifier teeth		5 (opt, 9) 5 (opt, 9)		
Lift above ground - Ripper teeth	mm	518 518		
Maximum penetration - Ripper teeth	mm	437	437	
Weight (3/5 teeth)	kg	795	850/890	
DOZER BLADE	-			
Туре		Front mounted		
Width	mm	2762		
Height	mm	953		
Lift above ground	mm	622		
Penetration	mm	165		
Weight	kg	1165		
-	.			

OPERATING WEIGHT		865B	885B
Basic machine, cab with heater and A/C, ripper and front counterweight (torque converter transmission ZF, fully service, full fuel tank, lights, standard batteries and 80 kg operator)	kg	16864 (tires 14.00x24 Moldboard 13FT)	18120 (tires 17.5-25 12PR Moldboard 14FT)

GENERAL DIMENSIONS



All units fitted with 14.0 x 24-12L tires, open ROPS/FOPS cab, standard battery, full fuel tank, operator weigh 80 kg, specifications in accordance with ISO 7134.

			0055	0055
			865B	885B
Α	Blade width	mm	3962	4267
в	Tread width	mm	2545	2583
С	Tread gauge	mm	2124	2162
D	Height on top of h.p. cab	mm	3400	3400
	Height on top of I.p. cab	mm	3200	3200
Е	Height of top of exhaust	mm	3323	3323
F	Height to top of blade lift cylinder	mm	3047	3047
G	Tire static radius	mm	610	610
Н	Distance between tandem centre and the frame articulation pin	mm	1958	1958
I -	Distance between the front axle and the blade	mm	2562	2562
J	Distance between the centre of the rear tires	mm	1572	1624
К	Distance between tandem centre and the wheel	mm	786	812
L	Wheelbase	mm	6219	6219
м	Distance between tandem centre and the rear part of the equipment	mm	2064	2064
Ν	Distance between the front wheen axle and the rear part of the equipment	mm	8283	8283
0	Overall length	mm	8957	8957
Ρ	Distance between the rear tires and the ripper	mm	2273	2247
Q	Distance between the front tires and the scarifier	mm	1520	1520
R	Distance between the front tires and the dozer blade	mm	1626	1626
	Outside tire turning radius	mm	7250	7250
	Ground clearance (rear axle)	mm	380	380
	Ground clearance (front axle)	mm	580	580



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 ENGINE 865B FPT F4HE9687C 885B FPT F4HE9687K 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 **HYDRAULIC SYSTEM** Hydraulic system with load sensor, closed centre 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 centre with 8 quick couplers Hydraulic axial piston pump

OPTIONS*

Sunshade(front and rear)

Air conditioner for closed cab

Drawbar / Heavy Duty circle

Closed high cab (fixed front window)

Rear windshield washer and wipers

6 additional teeth for the front ripper

Dozer blade float electrovalve

3,658 x 622 x 22 mm blade

3.962 x 671 x 22 mm blade

4,267 x 671 x 22 mm blade

Closed high cab (front flip-down window)

Windshield washer and lower windshield wipers

CAB

OTHERS

Radio

Rear fogger

DRAWBAF

Dozer Blade

Push plate

BLADE

Fire extinguisher

Tandem lock device

FRONT ATTACHMENT

5 tooth front scarifier

Front counter weight

Lighting on dozer blade

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 14" 3-pieces rim / 17,25 x 25 - 12L - G2 tubeless **OTHERS** Standard tool kit Drawbar / Standard circle **AXIES** 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 Centre** 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

-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 EXTRAS Revolving safety light

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

Forth 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.

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



SINCE 1842

BUILDING A STRONG CASE.

Since 1842, at CASE Construction Equipment we have lived by an unwavering commitment to build practical, intuitive solutions that deliver both efficiency and productivity.

We continually strive to make it easier for our customers to implementemergingtechnologies and new compliance mandates.

Today, our global scale combined with our local expertise enables us to keep customers' real-world challenges at the centre of our product development.

The vast CASE dealers' network is always ready to support and protect your investment and exceed your expectations, while also providing you with the ultimate ownership experience.

Our goal is to build both stronger machines—and stronger communities. At the end of the day, we do what's right for our customers and our communities so that they can count on CASE.

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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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