SINCE 1842

CASE CONSTRUCTION

D SERIES - STAGE V

GRADER

836D | 836D AWD | 856D | 856D AWD

836D - 836D AWD
SPECIFICATIONS

ENGINE STAGE V "Hi-eSCR2"

Maximum Power (ISO 14396/ECE R120)
From 1st to 3rd gear _____ 102 kW/138 hp
From 4th to 6th gear _____ 115 kW/156 hp
Governed _____ 2100 rpm
Make & model _____ FPT N67 NEF 6 cyl.
Aftertreatment system _____ DOC+SCRoF
Donaldson air filter with dust ejector _____ std
Type _____ diesel, common rail, dual power, turbocherged and intercooler
Displacement _____ 6.7 l
Number of cylinders _____ 6
Bore & stroke _____ 104x132 mm
Maximum torque at 1400 rpm _____ 725 Nm
Remote engine oil filter for easy replacement
- 25°C outside temperature start as standard equipment.
The engine complies with (EU) 2016/1628 regulations STAGE V.

TORQUE CONVERTER

Single-stage torque converter integrated into shift gearbox
Automatic matching of output torque to changing travel conditions
Converter ratio _____ 1.87: 1
Cooling by heat exchanger

TRANSMISSION

Full powershift transmission with 6 forward and 3 reverse gears.
Electric single-lever shift with reverse-lock in ranges 3-6.

Speeds in km/h

GEAR	FORWARDS	REVERSE
1.	5.4	5.7
2.	8.3	13.3
3.	12.6	29.2
4.	19.2	-
5.	27.9	-
6.	39.9	-

Tractive effort (adeherence coefficient 0.8)
836D _____ 66 kN
836D AWD _____ 85 kN

AXLE FRONT

Oscillating axle with wheel spindle steering and hydraulic wheel lean adjustment

	836D	836D AWD
Axle oscillation	± 15°	± 15°
Wheel lean	± 21.45°	± 21.45°
Ground clearance	485 mm	485 mm

AXLE REAR TANDEM

CASE tandem grader axle with automatic No-Spin differential
Oscillating tandem drives with heavy-duty roller chains
Planetary reduction
Oscillation _____ ± 15°
Tandem box dimensions:
Height _____ 599 mm
Width _____ 201 mm
Wall thickness _____ 20 mm
Chain pitch _____ 50.8 mm
Tandem wheelbase _____ 1241 mm

ALL WHEEL DRIVE

Selectable in addition to the hydrodynamic rear-wheel drive. Hydrostatic front-wheel drive with E.D.C.V. (Electronic Drive Control Volume). A bi-directional swash plate pump (forward/reverse) drives wheel-hub mounted motors in each of the front wheels. Hydraulic No-Spin differential prevents one-sided wheel spin and proportions torque when cornering. A microprocessor monitors and matches front- and rear-wheel drive forces. A stepless switch allows the operator to adapt front-wheel thrust to existing job conditions. Creep mode as standard: front traction only, for ultra low machine speed.

BRAKES

Hydraulic, dual-circuit accumulator pump braking with 4 oil bath disc brakes acting on tandem-wheels. Parking brake: disc brake acting on transmission.

STEERING

Operated from the adjustable steering and control console.
Front-wheel spindle steering, all hydraulic, volume control.

	836D	836D AWD
Steering wheel lock. left/right	40°	40°
Articulated frame with 2 double-flow steering cylinders: Articulation angle	± 28°	± 28°
Minimum turning radius: across tyres across front blade	6600 mm 7300 mm	6800 mm 7600 mm

TYRES

405/70 R20 SPT9 Dunlop
420/75 R20 XMCL TL Michelin
455/70 R20 SPT9 Dunlop
405/70 R24 SPT9 Dunlop

XMCL MICHELIN SPT9 DUNLOP

MOLDBOARD CONTROL

"Load Sensing" for maximising functions controllability. Control levers for precision metering of adjustment speed. Pressure compensation in each of the control valve units permits parallel moldboard lifting or simultaneous operation of two other functions, with no disruptive interaction. A pedal allows the operator to switch to max. output for faster functioning (Full Flow Mode). Unlockable check valves maintain lift/cutting angles and wheel lean cylinders constant.

A-FRAME

Robust welded box section A-frame.
L-profile cross section _____ 125x120x8 mm

SLEWING RING

Internal gearing, sealed roller-mounted, backlash-free, self-adjusting
Driven by hydraulic motor and moldboard mechanism
Diameter _____ 1150 mm
Action radius _____ 360°

MOLDBOARD

Multiradius wear-resistant, high-grade steel with hardened rounded
guides. Replaceable, split main and side blades.
Width _____ 2440/3050/3355 mm
Blade height/thickness _____ 526/15 mm
Cutting edge height/thickness _____ 152/19 mm
Bolt diameter _____ 16 mm

MOLDBOARD SETTINGS

Shifting:
to the right _____ 491 mm
to the left _____ 708 mm
Reach across tyres w/o articulated steering:
right horizontal _____ 1865 mm
left horizontal _____ 1525 mm
Reach across tyres with articulated steering:
right horizontal _____ 2490 mm
left horizontal _____ 2150 mm
Max. slope angle:
right _____ 117°
left _____ 76°
Max. lift height above ground _____ 394 mm
Max. scraping depth _____ 456 mm
Cutting angle adjustment, hydr _____ 49.5°

HYDRAULIC SYSTEM

"Load Sensing" with variable displacement axial piston pump. Zero oil delivery under no-function conditions and hence power savings. Closed system with pressurised tank. Pressure relief valve.
Hydraulic pump _____ swash plate, variable displacement
Max delivery _____ 94.5 l/min
Max pressure _____ 200 bar
Pressure relief setting _____ 215 bar

FRAME

Front frame: stiff, welded section from high-strength, fine-grain steel
Cross-section _____ 270 x 270 mm
Wall thickness _____ 12 mm
Rear frame _____ torsion resistant frame
Cross-section _____ 220 x 260 mm

CAB

Elastically mounted, noise insulated ROPS/FOPS cab with two swinging doors. Either side access. Tinted glass.
Rear-frame mounted cab. Heater/defroster nozzles.
Heated and Air Suspended seat.
Low profile Cab option reducing overall grader height by 180 mm.
ROPS according to EEC sample testing _____ ISO 3471
FOPS according to EEC sample testing _____ ISO 3449
Cab noise level _____ 75 dbA
External noise level _____ 99 dbA

ELECTRICAL SYSTEM

Voltage _____ 24 V
Batteries _____ 2 x 100 Ah
Alternator _____ 90 A
Starter _____ 4 kW

CAPACITIES

Lube oil _____ 12.5 l
Coolant (Including: cooler and Heater) _____ 32.0 l
Transmission (including converter and cooling) _____ 27.0 l
Axle gear _____ 31.0 l
Tandem _____ 120.0 l
Worm gear _____ 2
Hydraulic tank _____ 70.0 l
Hydraulic oil, total:
836D _____ 170.0 l
836D AWD _____ 185.0 l
Fuel tank _____ 278.0 l
AdBlue tank _____ 54 l

856D - 856D AWD
SPECIFICATIONS

ENGINE STAGE V "Hi-eSCR2"

Maximum Power (ISO 14396/ECE R120)
From 1st to 3rd gear _____ 129 kW/173 hp
From 4th to 6th gear _____ 142 kW/190 hp
Governed _____ 2100 rpm
Make & model _____ FPT N67 NEF 6 cyl.
Aftertreatment system _____ DOC+SCRoF
Donaldson air filter with dust ejector _____ std
Type __ diesel, common rail, dual power, turbocherged and intercooler
Displacement _____ 6.7 l
Number of cylinders _____ 6
Bore & stroke _____ 104x132 mm
Maximum torque at 1400 rpm _____ 850 Nm
Remote engine oil filter for easy replacement
- 25°C outside temperature start as standard equipment
The engine complies with (EU) 2016/1628 regulations STAGE V.

TORQUE CONVERTER

Single-stage torque converter integrated into shift gearbox
Automatic matching of output torque to changing travel conditions
Converter ratio _____ 1.91: 1
Cooling by heat exchanger

TRANSMISSION

Full powershift transmission with 6 forward and 3 reverse gears.
Electric single-lever shift with reverse-lock in ranges 3-6.

Speeds in km/h

GEAR	FORWARDS	REVERSE
1.	5.0	5.4
2.	7.7	12.6
3.	11.8	27.9
4.	17.9	-
5.	26.0	-
6.	38.0	-

Tractive effort (adeherence coefficient 0.8)
856D _____ 95 kN
856D AWD _____ 117 kN

AXLE FRONT

Oscillating axle with wheel spindle steering and hydraulic wheel lean adjustment

	856D	856D AWD
Axle oscillation	± 15°	± 15°
Wheel lean	± 20.3°	± 20.3°
Ground clearance	554 mm	554 mm

AXLE REAR TANDEM

CASE tandem grader axle with automatic No-Spin differential
Oscillating tandem drives with heavy-duty roller chains
Planetary reduction
Oscillation _____ ± 15°
Tandem box dimensions:
Height _____ 590 mm
Width _____ 199 mm
Wall thickness _____ 20 mm
Chain pitch _____ 50.8 mm
Tandem wheelbase _____ 1572.6 mm

ALL WHEEL DRIVE

Selectable in addition to the hydrodynamic rear-wheel drive. Hydrostatic front-wheel drive with E.D.C.V. (Electronic Drive Control Volume). A bi-directional swash plate pump (forward/reverse) drives wheel-hub mounted motors in each of the front wheels. Hydraulic No-Spin differential prevents one-sided wheel spin and proportions torque when cornering. A microprocessor monitors and matches front- and rear-wheel drive forces. A stepless switch allows the operator to adapt front-wheel thrust to existing job conditions. Creep mode as standard: front traction only, for ultra low machine speed.

BRAKES

Hydraulic, dual-circuit accumulator pump braking with 4 oil bath disc brakes acting on tandem-wheels. Parking brake: disc brake acting on transmission.

STEERING

Operated from the adjustable steering and control console.
Front-wheel spindle steering, all hydraulic, volume control.

	856D	856D AWD
Steering wheel lock. left/right	42.5°	42.5°
Articulated frame with 2 double-flow steering cylinders: Articulation angle	± 28°	± 28°
Minimum turning radius: across tyres across front blade	7300 mm 8100 mm	7300 mm 8000 mm

TYRES

17.5 R25 XHA Michelin (transport width<2500 mm)
17.5 R25 XTLA G2 Michelin
17.5 - 25 EM SGL TL Goodyear (transport width<2500 mm)


XHA MICHELIN


XTLA MICHELIN


SLG GOODYEAR

MOLDBOARD CONTROL

"Load Sensing" for maximising functions controllability. Control levers for precision metering of adjustment speed. Pressure compensation in each of the control valve units permits parallel moldborad lifting or simultaneous operation of two other functions, with no disruptive interaction. A pedal allows the operator to switch to max. output for faster functioning (Full Flow Mode). Unlockable check valves maintain lift/cutting angles and wheel lean cylinders constant.

A-FRAME

Robust welded box section A-frame.
L-profile cross section _____ 140x140x10 mm

SLEWING RING

Internal gearing, sealed roller-mounted, backlash-free, self-adjusting
Driven by hydraulic motor and moldboard mechanism
Diameter _____ 1350 mm
Action radius_____360°

MOLDBOARD

Multiradius wear-resistant, high-grade steel with hardened rounded
guides. Replaceable, split main and side blades.
Width _____ 3350/3665/3960 mm
Blade height/thickness _____603/20 mm
Cutting edge height/thickness _____152/19 mm
Bolt diameter _____16 mm

MOLDBOARD SETTINGS

Shifting:
to the right_____755 mm
to the left _____ 645 mm
Reach across tyres w/o articulated steering:
right horizontal _____ 2375 mm
left horizontal _____ 1685 mm
Reach across tyres with articulated steering:
right horizontal _____3135 mm
left horizontal _____ 2545 mm
Max. slope angle:
right _____100°
left_____ 112°
Max. lift height above ground _____ 480 mm
Max. scraping depth_____ 500 mm
Cutting angle adjustment, hydr_____50°

HYDRAULIC SYSTEM

"Load Sensing" with variable displacement axial piston pump. Zero oil delivery under no-function conditions and hence power savings. Closed system with pressurised tank. Pressure relief valve.
Hydraulic pump _____ swash plate, variable displacement
Max delivery _____126 l/min
Max pressure _____ 200 bar
Pressure relief setting _____ 215 bar

FRAME

Front frame: stiff, welded section from high-strength, fine-grain steel
Cross-section_____ 300 x 300 mm
Wall thickness_____20 mm
Rear frame_____ torsion resistant frame
Cross-section_____ 260 x 90 mm

CAB

Elastically mounted, noise insulated ROPS/FOPS cab with two swinging doors. Either side access. Tinted glass. Rear-frame mounted cab. Heater/defroster nozzles. Heated and Air Suspended seat.
Low profile Cab option reducing overall grader height by 180 mm.
ROPS according to EEC sample testing _____ISO 3471
FOPS according to EEC sample testing _____ ISO 3449
Cab noise level_____ 75 dbA
External noise level _____ 99 dbA

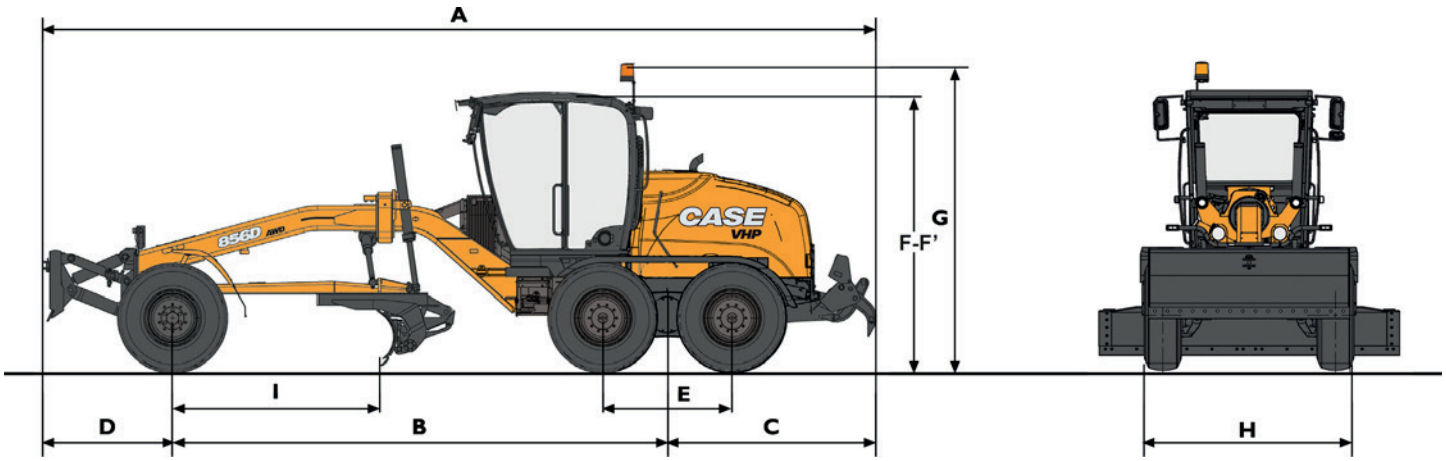
ELECTRICAL SYSTEM

Voltage_____24 V
Batteries _____ 2 x 100 Ah
Alternator_____90 A
Starter _____ 4 kW

CAPACITIES

litres
Lube oil _____ 12.5
Coolant (Including: cooler and Heater) _____ 32.0
Transmission (including converter and cooling)_____ 27.0
Axle gear _____36.0
Tandem _____128.0
Worm gear _____ 2.5
Hydraulic tank _____90.0
Hydraulic oil, total:
856D _____185.0
856D AWD _____200.0
Fuel tank _____278.0
AdBlue tank _____54

DIMENSIONS
AND SPECIFICATIONS



MACHINE WITH:		836D	836D AWD	856D	856D AWD
Front & rear counterweight	kg	11701	12001	14976	15376
Front blade & rear c/w	kg	11805	12105	15140	15540
Front c/w & rear ripper	kg	12005	12305	15407	15807
Front blade & rear ripper	kg	12109	12409	15571	15971
Max. operating weight	kg	12500	12800	16250	16650

With low Profile Cab the weight is reduced by: 35 kg

836D, 836D AWD EQUIPPED WITH:		FRONT & REAR COUNTERWEIGHT	FRONT BLADE & REAR COUNTERWEIGHT	FRONT COUNTERWEIGHT & REAR RIPPER	FRONT BLADE & REAR RIPPER
A Total lenght	mm	7697	8372	8331	8961
B Wheelbase	mm		5351		
C Rear attachment end	mm		1605		
D Front attachment end	mm	762	1436	762	1436
E Tandem base	mm		1241		
F Standard cab height	mm		3240		
F' Low profile cab height	mm		3060		
G Max machine height	mm		3586		
H Width over tyres	mm	2303	2303	2360	2360
I Blade base	mm		1997		

Dimensions referred to a machine equipped with 405/70R20 tires. Machine height and width over tires may vary with other tires.

856D, 856D AWD EQUIPPED WITH:		FRONT & REAR COUNTERWEIGHT	FRONT BLADE & REAR COUNTERWEIGHT	FRONT COUNTERWEIGHT & REAR RIPPER	FRONT BLADE & REAR RIPPER
A Total lenght	mm	8592	9317	9285	10044
B Wheelbase	mm		6023		
C Rear attachment end	mm	1785	1785	2458	2458
D Front attachment end	mm	809	1568	809	1568
E Tandem base	mm		1572		
F Standard cab height	mm		3330		
F' Low profile cab height	mm		3150		
G Max machine height	mm		3674		
H Width over tyres	mm	2549	2549	2555	2555
I Blade base	mm		2504		

Dimensions referred to a machine equipped with 17.5R25EM tires. Machine height and width over tires may vary with other tires.

HYDRAULICALLY CONTROLLED FRONT BLADE		836D - 836D AWD	856D - 856D AWD
Blade width	mm	2350	2450
Blade height	mm	765	870
Penetration depth	mm	136	174
Max. ground clearance	mm	509	547
HYDRAULICALLY CONTROLLED REAR RIPPER FOR HEAVY DUTY APPLICATIONS		**836D - 836D AWD**	**856D - 856D AWD**
Ripping width	mm	2049	2268
Ripping depth	mm	310	371
Number of shanks	n°	5	5
Interval of shanks	mm	500	555
THE MOVABLE MOLDBOARD SCARIFIER CAN BE OPERATED IN BOTH DIRECTIONS		**836D - 836D AWD**	**856D - 856D AWD**
Number of shanks	n°	4	6
Scarifying width	mm	900	1080
RIPPING TRACK DISPLACEMENT		**836D - 836D AWD**	**856D - 856D AWD**
Left	mm	420	580
Right	mm	950	1200
Scarifying depth	mm	134	202

STANDARD EQUIPMENT

+ **NEW** Touchscreen Display is the new central point for all machine information's and settings
+ **NEW** Side Console on the right side includes ignition key, electronical hand throttle, cup holder and two USB ports to charge your mobile devices. Plus an additional storage compartment below the new side console
+ **NEW** Keypad that is easy to reach, easy to do settings and easy to clean
+ **UPDATED** storage compartment on the left side with bottle holder in the back and a net over the compartment to store safely what need to be protect for moving around
+ **NEW** Joystick controls for comfortable and precise work and drive (on EH models only)
+ Battery main switch
+ Cab equipped with two fully swinging doors for both side access, tinted safety glasses, front and rear sunshield
+ Switchable back-up alarm
+ Rear view camera
+ Radio
+ Rotating beacon
+ Caliper disc parking brake operating on transmission
+ NEF STAGE V engine with electronic management and "DualPower"
+ DOC & SCRoF exaust gas aftertreatment
+ Cold start
+ Control levers for precise and simultaneous moldboard operations
+ Front and rear fenders
+ Front wheel spindle steering with adjustable steering column
+ Air conditioning
+ High grade steel moldboard with hardened rounded guides
+ Hydraulic and dual-circuit accumulator brake system operating on tandem wheels
+ Hydraulically adjustable for 90° bank slope
+ Hydrostatic front-wheel drive with E.D.C.V. Electronic Drive*
+ Control volume and hydraulic differential *
+ Internal gearing, sealed, backlash-free and self-adjusting slewing ring operating on 360°
+ "Load Sensing" hydraulic system with variable displacement pump
+ Moldboard cutting angle hydraulically adjustable
+ Oscillating front axle with hydraulic lean adjustement
+ Oscillating tandem axle with automatic no-spin differential
+ Powershift transmission with 6 forward and 3 reverse speeds, with integrated torque converter
+ Rear counterweight
+ Road traffic lights
+ Rops/Fops suspened cab, mounted on rear frame
+ Standard cab
+ Heated and air suspended seat
+ Creep mode "AWD" version only
+ CASE "SiteWatch"

**Only on 836D AWD and 856D AWD*

OPTIONS

+ Biological hydraulic oil
+ Floating valve for moldboard
+ Front lights on cab
+ Cab roof LED working lights (2 front and 2 rear)
+ 2 Cab bottom LED working lights
+ Fuel refiling pump (50 l/min)
+ Left and right molboard side plates
+ Low profile cab
+ Overload clutch on moldboard
+ Parallel front blade
+ 2 Rear LED working lights
+ 5 teeth rear ripper with protection device
+ Scarifier on moldboard
+ Right moldboard extension
+ Tow coupling
+ Blade control predisposition (Leica, Trimble)
+ Front blade with parallel geometry and mechanical depth indicator
+ Front counterweight for 836D and 836D AWD (510 kg)
+ Front counteweight for 856D and 856D AWD (763 kg)
+ Tool box
+ Automatic lubrication system

Note: standard and optional equipment may vary by country. Consult your CASE dealer for specific details.

EXPERTS FOR THE REAL WORLD
SINCE 1842

CASE CONSTRUCTION

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 implement emerging technologies and new compliance mandates.

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

CNH Industrial
Deutschland GmbH
Case Baumaschinen
Benzstr. 1-3 - D-74076 Heilbronn
DEUTSCHLAND

CNH Industrial
Maquinaria Spain, S.A.
Avenida Aragón 402
28022 Madrid - ESPAÑA

CNH Industrial France, S.A.
16-18 Rue des Rochettes
91150 Morigny-Champigny
FRANCE

CNH Industrial Italia Spa
Lungo Stura Lazio 19
10156, Torino
ITALIA

CASE Construction Equipment
Cranes Farm Rd
Basildon - SS14 3AD
UNITED KINGDOM

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

CASECE.COM
00800-2273-7373

The call is free from a land line.
Check in advance with your Mobile Operator if you will be charged. Toll free number not available from all calling areas.

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