



**CASE**  
CONSTRUCTION

## D-SERIES GRADERS



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

# D-DYNAMIC, D-DEPENDABLE, D-DELIVERS

## INTRODUCING THE D-SERIES GRADER RANGE

The NEW D-Series Graders combine decades of development and improvements with an all-new look, starting from the driver's seat. With unbeaten visibility and an enhanced on-board experience, working with a Grader will never be the same again.



# ESTABLISHED MACHINES, INNOVATIVE FEATURES



## PRIORITISING PRODUCTIVITY

Our Graders have been working to keep your productivity high since 1934. They were the first to feature automatic blade guidance, are easy to maintain and have best-in-class all-wheel drive.

### DUAL POWER

**CURVE:** Maximise operation at higher speeds with automatic power curve switching and fast torque response.

### ERGOPOWER TRANSMISSION:

Optimise performance with automatic shifting combined with a 100% automatic diff. lock.

### ROLLER-MOUNTED ENCAPSULATED SLEWING RING:

Avoid backlash and wear and support high mechanical strain. Reduce daily maintenance with our exclusive mouldboard design, with fewer greasing points.

### BLADE CONTROL PREPARATION:

Achieve higher, more constant output and faster, more independent work at lower costs by factory fitting the most common blade control solutions to the 800 series grader.

### AWD WITH CREEP

**MODE:** Boost productivity with precision and performance at any speed.

# SMOOTH OUT TOUGH JOBS WITH CASE GRADERS

## SIX FACTORS THAT ELEVATE THE D-SERIES

The NEW D-Series Graders combine decades of development and improvements with an all-new look, starting from the driver's seat. With unbeaten visibility and an enhanced on-board experience, working with a Grader will never be the same again.



### 1 SUSTAINABILITY AT THE CORE

Advanced, unique, unbeaten HI-eSCR technology

Additional maintenance-free device on the SCR catalyst to comply with the tightened PM limits for Stage V  
Low fuel consumption at full power

### 2 POWERFUL DRIVELINE

Full traction in any condition with AWD with creep mode

Dual power curve VHP for higher power rate at high speed  
ERGOPOWER transmission with torque converter shifts smoothly and automatically

### 3 EFFORTLESS OPERATION

JOYSTICK MODELS boost productivity  
MECHANICAL MODELS with direct mounted levers, that have no play, for improved control.

LOW PROFILE CAB reduces transport height

REAR MOUNTED CAB ensures you're always in line with the work

### 4 GREAT VERSATILITY

Tailor your grader for any application with a wide variety of options, such as 3 moldboard widths, moldboard extensions, overload clutch, 5 teeth ripper, front-blade, counterweights and LED lights.

### 5 COMFORT IS KING

NEW touchscreen for machine status, rear camera and more

NEW keypad, easy to reach, easy to clean

NEW side console, ignition key, cup holder, hand throttle and USB ports

NEW storage compartments on both sides

### 6 SAFE, EASY MAINTENANCE

Easy serviceability is part of CASE's DNA: easily perform all the main checks from the wide, safe tandem fender, with all service points conveniently grouped and positioned

# CLEANER, GREENER POWER.



## SUSTAINABILITY CHANGES THE WORLD

CASE Graders feature FPT Industrial's unique, unbeaten HI-eSCR2 technology. With low-emissions, high-efficiency and a compact size, it delivers high performance with powertrain technologies that comply with the tight limits on PM emissions, at low operating costs.



6.7 litre 6-cylinder turbocharged dual-power common rail engine with intercooler.



Higher power rate at high speed (4th gear) increases productivity.



EU Stage V compliant with HI-eSCR2 (DOC & SCRof).



Compatible with HVO and all other XTL synthetic fuels (CTL, BTL, GTL) for flexible, sustainable fuel solutions.

# BETTER COMFORT, BETTER PRODUCTIVITY

## TAKE CONTROL YOUR WAY

Comfort is vital to productivity, so you can now choose how to control our D-Series Graders.

### TWO CONTROL OPTIONS

**EH JOYSTICK** controls with two highly precise 3-axis joysticks. Enjoy comfort, ease and precision all day long with intuitive working and ergonomical driving.

**MECHANICAL** controls with directly to the hydraulic block-mounted levers. Reduce lever free play and increase working accuracy with direct feedback, plus get unbeatable performance, reliability and controllability with our exclusive hydraulic system.

### ONE COMFORT SOLUTION

View machine and maintenance info, settings, the rear-view camera and operator manual on the **NEW TOUCHSCREEN**.

Enjoy an electronic hand throttle, 2 USB ports, ignition key and cup holder on the **NEW RIGHT SIDE CONSOLE**, with storage below.

Easily access all settings with the **NEW KEYPAD**.

Safely store belongings with an **UPDATED STORAGE COMPARTMENT**, featuring a rubber strap and net.









# STANDARD AND OPTIONS

## 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, electronic 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 exhaust 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 adjustment

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 suspended 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

## OPTIONAL EQUIPMENT

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 refilling pump (50 l/min)

Left and right moldboard 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 countweight 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.

## 836D - 836D awd / 856D - 856D AwD

### BRAKES

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

### TYRES 836D - 836D AWD

405/70R20 Powerload Goodyear

420/75 R20 XMCL TL Michelin

455/70 R20 SPT9 Dunlop

405/70 R24 SPT9 Dunlop



XMCL MICHELIN

SPT9 DUNLOP

Powerload Goodyear

### TYRES 856D - 856D AWD

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

### 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	
	836D 836D AWD	856D 856D AWD	836D 836D AWD	856D 856D AWD
1.	5.4	5.0	5.7	5.4
2.	8.3	7.7	13.3	12.6
3.	12.6	11.8	29.2	27.9
4.	19.2	17.9	-	-
5.	27.9	26.0	-	-
6.	39.9	38.0	-	-

Tractive effort (adeherence coefficient 0.8)

836 \_\_\_\_\_ 66 kN

836D AWD \_\_\_\_\_ 85 kN

856D \_\_\_\_\_ 95 kN

856D AWD \_\_\_\_\_ 117 kN

### 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.

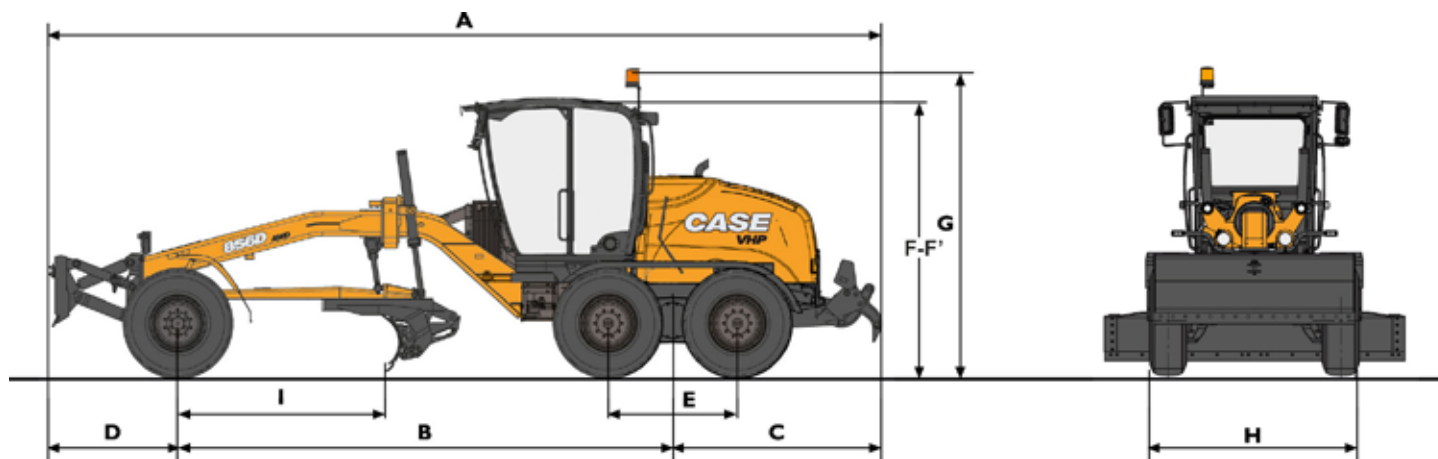
# SPECIFICATIONS

## 836D - 836D AWD / 856D - 856D AWD

SPECIFICATIONS		836D - 836D AWD		856D - 856D AWD	
ENGINE STAGE V “Hi-eSCR2”					
Maximum Power		(ISO 14396/ECE R120)			
From 1 <sup>st</sup> to 3 <sup>rd</sup> gear	kW/hp	102/138		129/173	
From 4 <sup>th</sup> to 6 <sup>th</sup> gear	kW/hp	115/156		142/190	
Governed	rpm	2100			
Make & model		FPT N67 NEF 6 cyl			
Aftertreatment system		DOC+SCRoF			
Donaldson air filter with dust ejector		std			
Type		diesel, common rail, dual power, turbocharged and intercooler			
Displacement	l	6.7			
Number of cylinders		6			
Bore & stroke	mm	104x132			
Maximum torque at 1400 rpm	Nm	725		850	
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		1.91:1	
Cooling by heat exchanger					
AXLE FRONT					
Oscillating axle with wheel spindle steering and hydraulic wheel lean adjustment					
Axle oscillation	±			15°	
Wheel lean	±	21.45°		20.3°	
Ground clearance	mm	485		554	
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	mm	599		590	
Width	mm	201		199	
Wall thickness	mm	20			
Chain pitch	mm	50.8			
Tandem wheelbase	mm	1241		1572.6	
STEERING					
Operated from the adjustable steering and control console. Front-wheel spindle steering, all hydraulic, volume control.					
Steering wheel lock. left/right		40°		42.5°	
Articulated frame with 2 double-flow steering cylinders: Articulation angle	±			28°	
Minimum turning radius:					
across tyres across	mm	6600/6800		7300/7300	
front blade	mm	7300/7600		8100/8000	
A-FRAME					
Robust welded box section A-frame. L-profile cross section	mm	125x120x8		140x140x10	
SLEWING RING					
Internal gearing, sealed roller-mounted, backlash-free, self-adjusting					
Driven by hydraulic motor and moldboard mechanism					
Diameter	mm	1150		1350	
Action radius		360°			
MOLDBOARD					
Multiradius wear-resistant, high-grade steel with hardened rounded guides. Replaceable, split main and side blades.					
Width	mm	2440/3050/3355		3355/3660/3960	
Blade height/thickness	mm	526/15		603/20	
Cutting edge height/thickness	mm	152/19			
Bolt diameter	mm	16			

SPECIFICATIONS		836D - 836D AWD		856D - 856D AWD	
MOLDBOARD SETTINGS					
Shifting:					
to the right	mm	491			755
to the left	mm	708			645
Reach across tyres w/o articulated steering:					
right horizontal	mm	1865			2375
left horizontal	mm	1525			1685
Reach across tyres with articulated steering:					
right horizontal	mm	2490			3135
left horizontal	mm	2150			2545
Max. slope angle:					
right horizontal		117°			100°
left horizontal		76°			112°
Max. lift height above ground	mm	394			480
Max. scraping depth	mm	456			500
Cutting angle adjustment, hydr		49.5°			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	l/min	94.5			126
Max pressure	bar			200	
Pressure relief setting	bar			215	
FRAME					
Front frame: stiff, welded section from high-strength, fine-grain steel					
Cross-section	mm	270x270			300x300
Wall thickness	mm	12			20
Rear frame		torsion resistant frame			
Cross-section	mm	220x260			260x90
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	dbA			75	
External noise level	dbA			99	
ELECTRICAL SYSTEM					
Voltage	V			24	
Batteries	Ah			2x100	
Alternator	A			90	
Starter	kW			4	
CAPACITIES					
Lube oil	l			12.5	
Coolant (Including: cooler and Heater	l			32	
Transmission (including converter and cooling)	l			27	
Axle gear	l	31			36
Tandem	l	120			128
Worm gear	l	2			2.5
Hydraulic tank	l	70			90
Hydraulic oil, total	l	170/185			185/200
Fuel tank	l			278	
AdBlue tank	l			54	

# DIMENSIONS



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

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	5351	5351	5351
C Rear attachment end	mm	1605	1605	1605	1605
D Front attachment end	mm	762	1436	762	1436
E Tandem base	mm	1241	1241	1241	1241
F Standard cab height	mm	3240	3240	3240	3240
F' Low profile cab height	mm	3060	3060	3060	3060
G Max machine height	mm	3586	3586	3586	3586
H Width over tyres	mm	2303	2303	2360	2360
I Blade base	mm	1997	1997	1997	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	6023	6023	6023
C Rear attachment end	mm	1785	1785	2458	2458
D Front attachment end	mm	809	1568	809	1568
E Tandem base	mm	1572	1572	1572	1572
F Standard cab height	mm	3330	3330	3330	3330
F' Low profile cab height	mm	3150	3150	3150	3150
G Max machine height	mm	3674	3674	3674	3674
H Width over tyres	mm	2549	2549	2555	2555
I Blade base	mm	2504	2504	2504	2504

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



## 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 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.

**CASECE.com**

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

