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DORADO CVT

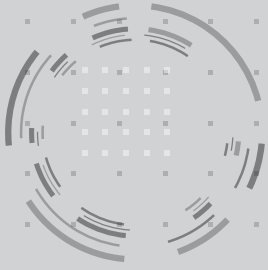
■ STAGE V

95 | 105 | 115



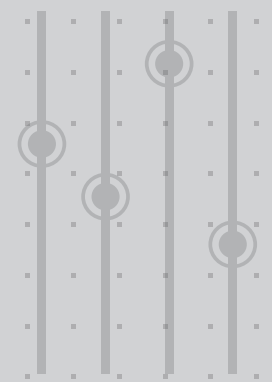
SAME

95 | 105 | 115



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[MISSION]

CLASS-BEATING TECHNOLOGY FOR TOTAL VERSATILITY.

The extraordinary versatility typical of Dorado tractors is taken to new heights with the introduction of Stage V engines and a continuously variable transmission, which lets you work even more comfortably and safely than ever.

MISSION

The new Dorado CVT sets a new absolute benchmark in the utility tractor segment, not just for the compactness and excellent agility that have always set Dorado tractors apart, but also for innovative high-tech content that you'd normally expect to see only in range-topping premium models.

The Dorado CVT is a tractor conceived specifically to deliver total versatility in all situations: on the traditional farm, it is perfect for sowing, hay-making, applying protective crop treatments (thanks to a pressurised cab with Cat. 4 filtration system), dispensing organic and mineral fertilisers and also offers outstanding performance in the most common soil preparation tasks. However, the compact dimensions of this tractor and the CVT transmission make it particularly suitable for municipal applications, from clearing snow and mowing verges and alongside roads to cleaning streets and pavements. But that's not all: The Dorado CVT is also perfectly at home in widely spaced fruit orchards and vineyards where, among other tasks, it is an extremely effective solution for tasks such as harvesting, transporting and other inter-row management jobs extremely effectively. Dorado CVT Stage V models feature innovative functionalities - such as Overboost, fully integrated autoguidance and PneuTrac tyres as option from factory - that let these tractors be ready for all tasks of tomorrow's agriculture.





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MULTI-ROLE

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3-point linkage
available in 2 different
configurations





ENGINE

CONCEIVED SPECIFICALLY FOR AGRICULTURE.



The SAME Dorado CVT family is powered by multiple award-winning FARMotion 45 engines, which boast state-of-the-art diesel engine technology and were developed by SDF to cater for the specific needs of farming.



In addition to their impressive performance and reliability, the FARMotion 45 engines used in these tractors are also extraordinarily compact and require minimal maintenance.

FARMotion 45 engines feature high pressure Common Rail injection (with injection pressures of up to 2000 bar), 7-hole injectors, an electronically controlled viscstatic fan and the PowerCore[®] air filter; a suite of solutions which minimises fuel consumption while offering outstanding performance, with power and torque delivery curves optimised for agricultural applications.



95: 95 HP / 70 kW

105: 106 HP / 78 kW

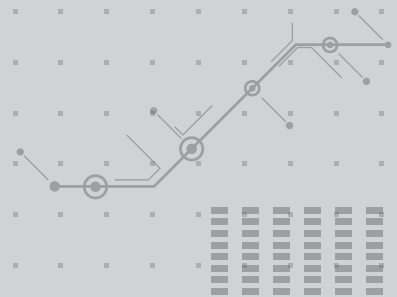
115: 116 HP / 85 kW

126 Hp/93 kW OverBoost

The innovative technology introduced to attain compliance with the Stage V emissions standard has been wisely integrated in the vehicle by SAME. The new Dorado CVT Stage V models keep the same compactness and the same tapered and sloping bonnet profile of the previous models. It means that Stage V upgrade did not impact on visibility and manoeuvrability, distinctive feature of Dorado models.

On top of this, FARMotion 45 engines have also raised their torque and power across the entire operating range of the engine. The Dorado CVT 115 model gain additionally the Overboost power management, which is able to provide an extra power of 10HP during road transport. When Overboost is active, the maximum power delivered by Dorado CVT 115 is 126 hp and maximum torque is 444 Nm.

FARMotion 45 features the most generous displacement of the category



ENGINE





TRANSMISSION AND PTO

EVERYTHING YOU COULD ASK FOR FROM A TRACTOR.

As well as the highly advanced CVT continuously variable transmission with PowerZero function and three operating modes, SAME Dorado CVT Stage V tractors come as standard with an electro-hydraulically engaged PTO clutch, and can also be equipped with a groundspeed PTO.

TRANSMISSION AND PTO

TRANSMISSION

Smooth and efficient.

Developed and manufactured entirely in-house, the state of the art and proven CVT sets the benchmark for continuously variable transmissions in tractors of this power class, with an efficiency rating of over 90% in specific conditions. The result is an efficient and reliable solution that allows the driver to vary groundspeed seamlessly, optimising the ratio used to take full advantage of the power of the engine for maximum agility and productivity.

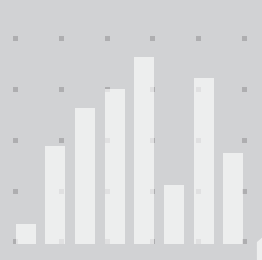
As well as all this, this transmission allows the tractor to be driven on the road at 40 km/h with an engine speed of just 1730 rpm, while automated control of the 4WD system and differential locks ensure outstanding productivity and efficiency in the field.

The PowerZero function holds the machine in complete safety even on steep gradients, without the driver using the brake pedal.

A highly ergonomic joystick puts all the primary controls at the fingertips of the operator, for simple, intuitive control of the transmission. A dedicated dial lets the driver select from a wide number of different engine management modes ranging from "Eco", which minimises fuel consumption, to "Power", which maximises tractor performance.



100%
100%
100%



PTO

Everything you need is already standard.

A comprehensive choice of PTO modes further accentuates the acclaimed multi-role capabilities of the Dorado CVT Stage V. The rear PTO is offered as standard with 540 rpm, 540 ECO and 1000 rpm modes and features a proportionally engaged electromechanical clutch for starting and stopping even high inertia implements without sudden and potentially dangerous kickback, and is controlled simply from an ergonomically positioned button on the MaxCom armrest, or from dedicated buttons situated on the rear mudguards.

Other standard features include a button for automated engagement and disengagement of the PTO in relation to rear lift position,

which saves precious time during headland turn manoeuvres, and an extremely practical interchangeable output stub shaft. The groundspeed PTO, available as an option, is indispensable for tasks with driven axle trailers.

PTO
540
540 ECO
1000



TRANSMISSION AND PTO

Power take off





AXLES AND BRAKES

COMPLETE SAFETY AND COMFORT.



The generous standard equipment of the Dorado CVT Stage V already includes outstanding solutions for the axles, brakes and safety systems, while the optional ActiveDrive suspended front axle represents the state of the art in agricultural tractor technology.

In keeping with SAME traditions, Dorado CVT Stage V tractors also boast all-wheel brakes as standard, for better safety and driver feel. Then there's the SDD function which, when enabled, halves the number of steering wheel turns needed to steer the wheels fully at low ground speeds, to make headland turns even easier and quicker. Also standard are electro-hydraulically engaged 4WD and differential locks, while the optional ASM system can be used to automatically engage and disengage these functions in relation to ground speed and steering angle.



Front axle: Extensive scope for customised configuration.

As an alternative to a conventional swing axle, these tractors are available with the exclusive ActiveDrive articulated quadrilateral front suspension system, which is managed in concert with the traction control function by an adaptive electrohydraulic circuit. Featuring a combination of damping control, self-levelling and traction control functions, ActiveDrive improves stability, grip, traction, comfort and safety in all terrain conditions, both in the field and on the road. Boasting a compact design and

highly effective integrated management functions, ActiveDrive also includes Anti-Dive and Anti-Roll functions (which, respectively, mitigate weight transfer to the front axle under braking and vehicle roll), which significantly increase active safety and driver comfort, but also productivity in tasks demanding extreme precision, such as hedge and living wall maintenance.





HYDRAULICS

UNPARALLELED FLOW RATE AND CONFIGURABILITY.

UNPARALLELED FLOW RATE AND CONFIGURABILITY.



Capable of tackling any task.

To cater for the widely differing demands of hydraulic implements, Dorado CVT Stage V are offered with a choice of two hydraulic system configurations. The base version already comes with an 84 l/min pump dedicated to the lifts and distributors, while the most comprehensive configuration consists of a closed centre system with Load Sensing pump capable of delivering 100 l/min at an engine speed of just 1850 rpm - and an impressive 70 l/min of oil flow available at just 1300 rpm - making it possible to work effectively in high demand applications even at very low engine speeds and significantly reducing fuel consumption.

These tractors also offer enormous scope for configuring the hydraulic distributors: with a choice of configurations offered with from 3 to 5 rear spool valves. All configurations include free return couplers, electronic hydraulic flow control and adjustable timer control. Options available include the Power Beyond system and an additional 2 or 4 four mid-mounted ways duplicated from rear with free return coupler, and another 2 couplers in the front position. Hydraulic spool valves are easily controlled with joystick and fingertip on the MaxCom armrest. The controls can be freely assigned through InfoCentrePro settings.

Last but not least, Dorado CVT tractors are equipped as standard with an additional 42 l/min pump dedicated solely to the hydraulic steering system, for smooth, progressive steering action even at the lowest engine speeds, regardless of any other hydraulic flow demand.



LIFT

Standard or compact.

To maximise the versatility of these tractors even when working in confined spaces and with heavy implements, SAME has equipped Dorado CVT Stage V tractors with a rear lift featuring electronic control and a system to damp implement oscillation during road transport as standard, and offered with a choice of two different 3-point hitch variants. On the version with compact 3-point linkage, the tie-rod and hydraulic stabilisers can also be actuated by an independent distributor. In this configuration, the rear lift has a maximum capacity of 3660 kg (at the quick hitches), while the standard variant has an impressive lift capacity of 4310 kg. To further extend the versatility of Dorado CVT tractors, a front lift with a remarkable load capacity of 2100 kg is available as an option, with lower link arms which fold up against the machine to minimise the overall footprint of the machine when the front lift is not in use. Front lift is fed by an independent distributor.

3660 kg
4310 kg

Available with up to 5 rear distributors

Up to 4 duplicated mid-mounted couplers with free return plus an additional 2 couplers at the front





DRIVING POSITION

ASTOUNDING TECHNOLOGY AND COMFORT.



Featuring generously sized side windows, a panoramic windscreen and an exclusive lifting panel at the rear of the roof, the four pillar cab ensures outstanding all-round visibility.

Despite its compact dimensions, the cab of Dorado CVT Stage V tractors offers luxurious levels of comfort, with equipment and features you'd normally only expect to find in a premium flagship tractor. Standard features include air conditioning, Hydro Silent-Block cab suspension and the innovative MaxCom armrest fully integrated into the driver seat allowing the operator to control all the main functions of the tractor, from transmission management to configuring the hydraulic functions, and manage even the most complex implements simply and comfortably. All the controls on the armrest are organised rationally for optimal ergonomics, with extensive use of the tried and tested, intuitive colour coded scheme developed by SAME, which ensures simple and certain identification of the controls even by less experience operators.

The already generous standard equipment can be complemented with the addition of a Bluetooth audio system and a category 4 air filtration system, which allows the cab to be used as certified PPE when applying protective crop treatments, ensuring outstanding levels of safety and comfort for the operator.

SAME Dorado CVT Stage V tractors also offer ample scope for configuring the auxiliary electrical connectors inside and outside the cab, while the road and work lights are available as both halogen or LED variants. To improve visibility when working in cramped spaces, up to two rear cameras are available. For those demanding the latest in terms of digital technology and connectivity, these tractors can also be equipped with telemetry functionality, ISOBUS connection capability and the iMonitor3 with 8" screen which, among other functions, allows utilisation of the most advanced SDF Smart Farming Solutions.





SDF SMART FARMING SOLUTIONS

READY FOR THE AGRICULTURE OF THE FUTURE.



The connectivity solutions offered by SAME make interaction between the office and machinery even simpler. The new SDF Fleet Management application puts the user in total control of the new Dorado CVT Stage V models. The application lets the owner keep track of the position of the tractor in real time, wherever it is. SDF Fleet Management can also be used as an effective tool for planning maintenance, by making use of its notification functions, and for acquiring data relative to performance and fuel consumption. With the SDF Fleet Management application, dealers can always assist drivers in case of any upcoming issues that may occur. This reduces downtime and increases operation reliability of customer's machine.

Automatic steering systems save resources, increase convenience and productivity and ensure reliable precision. On the new Dorado CVT you can rely on highest accuracy. All Dorado CVT models can be equipped with a fully integrated autoguidance system with the brand new SR20 receiver. SR20 is a new GNSS receiver, designed for automatic steering systems. The housing contains the IMU as a standard, to detect any fluctuations via 3-axis gyroscope. This ensures best performance in all conditions. In combination with the CTM the reliability for guidance with RTK NTRIP is improved thanks to a 4G multi-net internet connection. The 8" iMonitor - optionally fitted on Dorado CVT - is also the central control element for all ISOBUS applications and manages various tasks. A great number of functions are even available without activation, such as processing application maps (TC-GEO) or automatic switching of up to 200 sections (TC-SC).



DORADO CVT

		95	105	115
ENGINE				
Model		FARMotion 45		
Emission level		Stage V		
Cylinders/Displacement	n°/cc	4 / 3.849		
Turbocharger with charge air cooling		▲		
e-VISCO cooling fan		▲		
Injection @ pressure	Type/ bar	Common Rail @ 2.000		
Max. power (ECE R120)	kW/HP	70/95	78/106	85/116
Max. power with Boost (ECE R120)	kW/HP	-	-	93/126
Power at rated speed (ECE R120)	kW/HP	66,40/90	74/101	80,6/110
Speed at maximum power	rpm	2000	2000	2000
Max. engine speed (rated)	rpm	2200	2200	2200
Max. torque	Nm	389	433	472
Max. torque with Boost	Nm	-	-	444
Speed at maximum torque	rpm	1400	1400	1400
Air filter with dust ejector		▲		
Fuel tank capacity (std/opt)	l	95/115		
AdBlue capacity	l	13		
Oil change interval	Hours	600		
TRANSMISSION				
Model		CVT transmission		
Transmission ratio		1,3832		
PowerShuttle with 5 different settings		▲		
Gearbox		CVT - Stepless transmission		
Cruise control	qty.	2 each direction		
Driving strategies		Auto / PTO / Manual		
Active standstill (PowerZero)		▲		
Top speed 40 km/h SuperECO	rpm	1730		
HYDRAULICS AND LINKAGE				
Pump flow (STD)	l/min	84		
Pump flow (OPT)	l/min	100 LS		
Separate steering pump		▲		
Spool valves controls	Type	Electronic		
Hydraulic auxiliary control valves (STD)	n°	3		
Hydraulic auxiliary control valves (OPT)	n°	up to 5 rear / 1 for front lift		
Aux valves settable in time and flow - proportional engagement		▲		
Power Beyond (standard couplers)		○		
Free pressureless return		▲		
Mid-mounted hydraulic ways	n°	0/2/4		
Front hydraulic ways	n°	0/2		
Automatic lower link stabilisers (mechanical)		○		
Rear linkage lifting capacity (STD)	Kg	4310		
Rear linkage lifting capacity (OPT - Compact Three point hitch)	Kg	3660		
Rear linkage lift category	Cat.	II		
External operation on rear fenders		▲		
Front linkage		○		
Front linkage lifting capacity	Kg	2100		
Hydraulic tie rod		○		
Hydraulic stabilisers		○		
Oil change interval	Hours	1200		
PTO				
Rear PTO 540/540ECO/1000		▲		
Rear auto PTO		▲		
Groundspeed PTO		○		
Front PTO 1000		○		

		95	105	115
AXLES AND BRAKES				
ActiveDrive suspended front axle			○	
Electro-hydraulic differential lock 100%			▲	
Auto 4WD system			○	
ASM system			○	
Steering Double Displacement SDD			○	
Performance steering ready with EasySteer function			○	
Steering angle	Degrees		55	
Hydraulic Parking Brake (HPB)			▲	
Hydraulic trailer brake with DualMode function			○	
ABS socket			○	
ELECTRICAL SYSTEM				
Voltage	V		12	
Standard battery	V / Ah		12 / 100	
Alternator	V / A		14 / 170	
Starter motor	V / kW		12 / 3	
External socket			▲	
Interface for attachments 11786 (7-pole)			○	
External mid-mounted electric sockets			○	
CAB				
4-pillar cab			▲	
Suspended on Hydro Silent-Block			▲	
Adjustable and telescopic rear view mirrors			▲	
Heated and electronic adjustable rear view mirrors			○	
Air conditioning			▲	
Liftable rear top roof			▲	
FOPS roof			○	
MaxCom armrest			▲	
iMonitor with 8"			○	
AutoTurn			○	
XTEND			○	
ISOBUS (with rear and in-cab connectors)			○	
VRC (Variable Rate Control)			○	
SC (Section Control) 200 sections			○	
SR20 RTK receiver			○	
CTM connectivity module			○	
Comfortip Professional			○	
Seat with pneumatic suspension			○	
Pre-arrangement for radio with antenna and loud speakers			▲	
Radio with Bluetooth			○	
4x Halogen work lights on cab roof			▲	
Up to 8x LED work lights			○	
Beacon light LED			○	
DIMENSIONS AND WEIGHTS				
Front tyres (min.)			280/85 R24	
Rear tyres (min.)			320/85 R36	
Front tyres (max.)			380/70 R20	
Rear tyres (max.)			540/65 R30	
Wheelbase	mm		2271	
Length	mm		4065	
Height (max.)	mm		2576	
Width (min.-max.)	mm		1745-2180	
Ground clearance	mm		406	
Front axle width (flange to flange)	mm		1500	
Rear axle width (flange to flange)	Kg		1540	
Unladen weight, front	kg		1700	
Unladen weight, rear	kg		2510	
Total unladen weight	kg		4210	
Maximum permissible axle load, front	kg		2300	
Maximum permissible axle load, rear	kg		4200	
Maximum permissible weight	kg		5800	

- ▲ STD
- OPT
- Not available




The technical data and images contained herein are indicative only. SAME reserves the right to modify its products at any time without prior notice.
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SAME

To find out more, visit same-tractors.com or talk to your dealer.



SAME is a brand of  SDF