

**DRDCVT**

[ STAGE IIIIB ]

DORADO CVT.

90 | 100 | 90.4

100.4 | 110.4



[ CODENAME ]

# DORADO CVT

[ DISTINGUISHING FEATURES ]

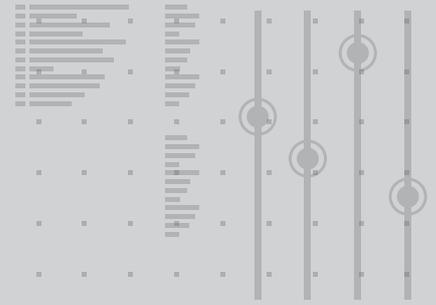
**BRISTLING WITH HIGH-TECH FEATURES**



**SAME**

**DRDCVT**

[STAGE IIIB]



[ MISSION ]

# CLASS-BEATING TECHNOLOGY FOR TOTAL VERSATILITY.

The extraordinary versatility typical of Dorado tractors is taken to new heights with the introduction of 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 superlative 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 the front loader applications, 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.





# ENGINE

CONCEIVED SPECIFICALLY  
FOR AGRICULTURE.

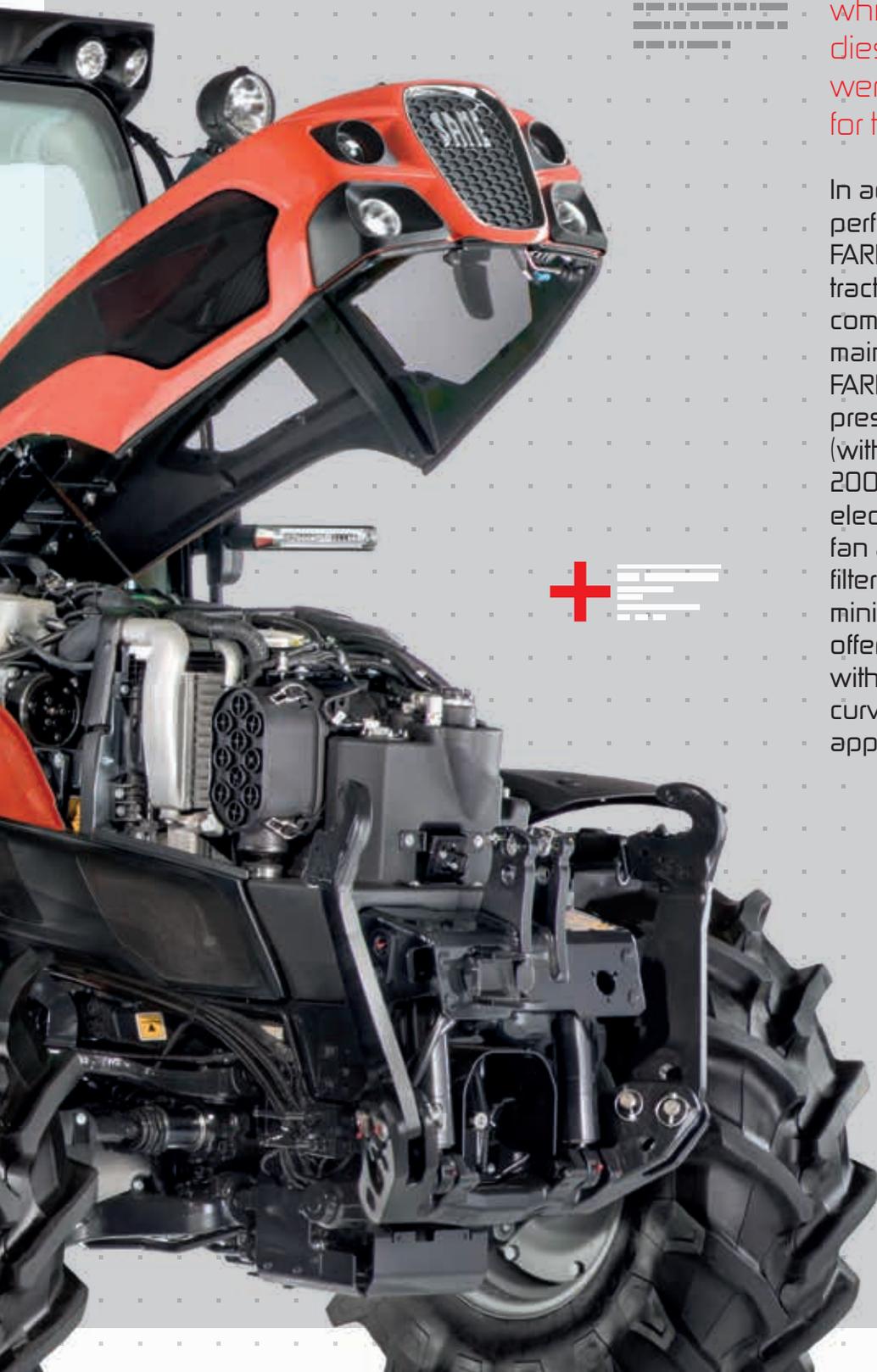


The SAME Dorado CVT family is powered by multiple award-winning FARMotion engines, which boast state-of-the-art diesel engine technology and were developed by SDF to cater for the specific needs of farming.



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

FARMotion engines feature high pressure Common Rail injection (with injection pressures of up to 2000 bar), 7-hole injectors, an electronically controlled viscostatic 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.



**90:** 88 CV / 65 kW  
**90.4:** 88 CV / 65 kW  
**100:** 97 CV / 71 kW  
**100.4:** 102 CV / 75 kW  
**110.4:** 113 CV / 83 kW

Compliance with Stage III B emissions regulations is attained with just a DOC catalytic converter and an electronically controlled external, cooled EGR system, both of which are maintenance-free and requiring no costly periodical regeneration cycles.

The 90 and 100 versions of the Dorado CVT are available with a choice of 3 or 4 cylinders (the former for greater agility and the latter for impressive draft power), while the range-topping Dorado CVT 110.4 is powered by a generously sized 3,8 litre 4 cylinder unit. With impressive maximum torque (435 Nm at 1600 rpm, on the Dorado CVT 110.4); a maximum engine speed of just 2200 rpm and maximum power (up to 113 HP, on the Dorado CVT 110.4) on tap at just 2000 rpm, this is a range of state of the art, high performance machines.

5 models offered with  
a choice of 3 or 4  
cylinder engines



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 tractors come as standard with an electrohydraulically engaged PTO clutch, and can also be equipped with a groundspeed PTO.

### TRANSMISSION

Smooth and efficient.

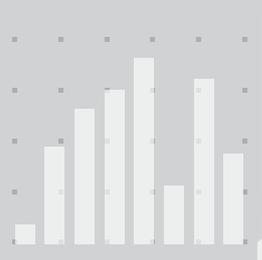
Developed and manufactured entirely in-house by SDF, the state of the art and proven CVT sets the benchmark for continuously variable transmissions in tractors of this power class, with an efficiency rating of over 90% in specific conditions. The result is an efficient and reliable solution that allows 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 drive 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.



Efficiency rating of over 90% in specific conditions.



## PTO

Everything you need is already standard.

A comprehensive choice of PTO modes further accentuates the acclaimed multi-role capabilities of the Dorado CVT. 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



# AXLES AND BRAKES

## SUPERLATIVE SAFETY AND COMFORT.



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

ACTIVEDRIVE

In keeping with SAME traditions, Dorado CVT 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 electrohydraulically 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-leveling 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 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 4 to 10 rear couplers. All configurations include free return couplers, electronic hydraulic flow control and settable timer control. Options available include the Power Beyond system and an additional 2 or 4 four belly couplers with free return coupler, and another 2 couplers for the front lift.

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.



Unparalleled  
configurability for the  
hydraulic system

## 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 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 lift 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 2880 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.

3660 kg  
4310 kg

HYDRAULICS

Available with up to 5 rear distributors

Up to 4 duplicated belly couplers with free return plus an additional 2 couplers at the front





# DRIVING POSITION

## ASTOUNDING TECHNOLOGY AND COMFORT.

CLASS-BEATING 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.

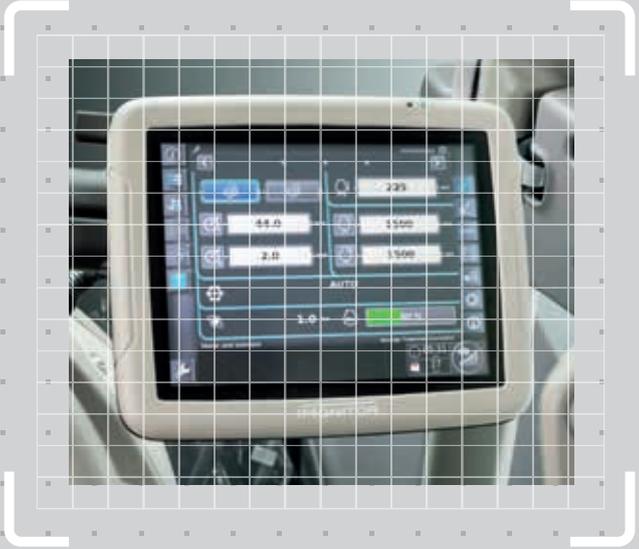
Despite its compact dimensions, the cab of Dorado CVT tractors offers superlative levels of comfort, with equipment and features you'd normally only expect to find in a premium flagship tractor. Standard features include air conditioning, Hydro Silent-Block cab suspension and the innovative MaxCom armrest with an integrated joystick 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 superlative ergonomics, with extensive usage 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.



8" touchscreen  
iMonitor

8" touchscreen  
iMonitor

8" touchscreen  
iMonitor



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 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. And 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 usage of the most advanced Connected Farming Systems.





[ CODENAME ]

# DORADO CVT

SPECIFICATIONS

		90	100	90.4	100.4	110.4
<b>ENGINE</b>						
Manufacturer		SDF	SDF	SDF	SDF	SDF
Model		FARMotion	FARMotion	FARMotion	FARMotion	FARMotion
Emissions compliance		Stage III B				
Cylinders/capacity	No./cc	3/2887	3/2887	4/3849	4/3849	4/3849
Common Rail	bar	2000	2000	2000	2000	2000
Turbo Intercooler		▲	▲	▲	▲	▲
Maximum power (ECE R120)	kW/HP	65/88	71/97	65/88	75/102	83/113
Power at rated engine speed (ECE R120)	kW/HP	61,5/83	67/91	61,8/84	71,5/97	79/107
Max. torque at 1600 rpm	Nm	354	369	354	408	435
Fuel tank capacity (std/opt)	Litres	95/115	95/115	95/115	95/115	95/115
<b>CONTINUOUS TRANSMISSION</b>						
Max. speed	km/h@rpm	40@1730	40@1730	40@1730	40@1730	40@1730
PowerZero		▲	▲	▲	▲	▲
Hydraulic reverse shuttle with SenseClutch		▲	▲	▲	▲	▲
<b>REAR PTO</b>						
Electrohydraulically engaged		▲	▲	▲	▲	▲
540/540E/1000 PTO		▲	▲	▲	▲	▲
540/540E/1000 PTO and ground speed PTO		○	○	○	○	○
<b>FRONT PTO</b>						
Electrohydraulically engaged		▲	▲	▲	▲	▲
PTO 1000		○	○	○	○	○
<b>AXLES AND BRAKES</b>						
Auto 4WD		○	○	○	○	○
ASM		○	○	○	○	○
Hydraulic parking brake (HPB)		▲	▲	▲	▲	▲
Hydraulic trailer braking		○	○	○	○	○
Rapid steering system (SDD)		○	○	○	○	○
<b>ACTIVEDRIVE</b>						
Adaptive Damping		▲	▲	▲	▲	▲
Active Self-Levelling		▲	▲	▲	▲	▲
Anti-Dive		▲	▲	▲	▲	▲
Anti-Roll		▲	▲	▲	▲	▲
DTC (Differential Traction Control)		▲	▲	▲	▲	▲
<b>LIFT</b>						
Vibration damping system		▲	▲	▲	▲	▲
Rear lift load capacity (standard 3-point linkage)	kg	4310	4310	4310	4310	4310
Rear lift load capacity (compact 3-point linkage)	kg	3660	3660	3660	3660	3660
Front lift		○	○	○	○	○
Front lift capacity	kg	2880	2880	2880	2880	2880
<b>HYDRAULIC SYSTEM</b>						
Load Sensing pump capacity	l/min	100	100	100	100	100
Fixed displacement pump flow rate	l/min	84	84	84	84	84
Rear electrohydraulic distributors	No. of couplers	4/6/8/10	4/6/8/10	4/6/8/10	4/6/8/10	4/6/8/10
Belly couplers, inclusive of free return couplers (opt)	No. of couplers	2+1/4+1/ 6+1	2+1/4+1/ 6+1	2+1/4+1/ 6+1	2+1/4+1/ 6+1	2+1/4+1/ 6+1
<b>CAB</b>						
Comfortip (headland turn management system)		▲	▲	▲	▲	▲
Air-sprung seat suspension		▲	▲	▲	▲	▲
Cab with Hydro Silent-Block suspension		▲	▲	▲	▲	▲
LED work lights (4th generation)		○	○	○	○	○
Cat. 4 air filtration system		○	○	○	○	○
8" iMonitor		○	○	○	○	○
Rear cameras		○	○	○	○	○
<b>DIMENSIONS AND WEIGHTS</b>						
Wheelbase	mm	2141	2141	2271	2271	2271
Overall width (min-max)	mm	1745-2174	1745-2174	1745-2182	1745-2182	1745-2182
Total unladen weight	kg	3950	3950	4050	4050	4050
Maximum permissible load	kg	5800	5800	5800	5800	5800

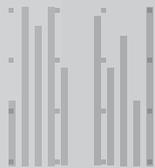
- ▲ STD
- OPT
- Not available

**DRDCVT**

[STAGE IIIB]

DORADO CVT

90 | 100 | 90.4 | 100.4 | 110.4



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To find out more, visit [same-tractors.com](http://same-tractors.com) or talk to your dealer.



SAME is a brand of  SDF