



Dorado



SAME Dorado, a great little tractor.

A family of versatile, compact tractors, created to provide the ideal answer for working in the open field, for general farm tasks and for jobs where compactness is a fundamental requisite.

The extensive Dorado family contains a choice of Stage III B compliant models powered by state of the art FARMotion engines.

The SAME Dorado family offers an impressive variety of configurations, superior comfort and modern features to take on any job with ease: from the smallest in the range, which is perfect for general farm tasks - even in confined spaces - to the most powerful, designed for heavier duty jobs which need more PTO power.

The choice of 2 and 4 wheel drive versions, 3 or 4 cylinder engines and standard or Classic models make this range ideal for use in small and medium-sized farms, even in hilly and mountainous areas, where the Dorado can carry out any task in complete safety, with its low centre of gravity and 4-wheel integral braking.

Another key factor is the new design of the Dorado range. The front module has been completely revised, not only technically, but also aesthetically, with a completely redesigned style for the cowling and grille.





A wide choice of 3 and 4 cylinder engines.

At the heart of every Dorado Stage III B tractor is an advanced FARMotion engine developed and manufactured by SDF. Compliance with current Stage III B emissions regulations is ensured by EGR exhaust gas recirculation combined with a DOC catalytic converter. Even as far as its design, innovative technical features were applied: the capacity has been reduced, the Common Rail injection system guarantees instantaneous injection and a particularly high (2.000 bar) operating pressure. All engines have hydraulic tappets for injection timing management. The intercooler cools the air of the turbo. The increase in the amount of air improves combustion and makes it more efficient, with a

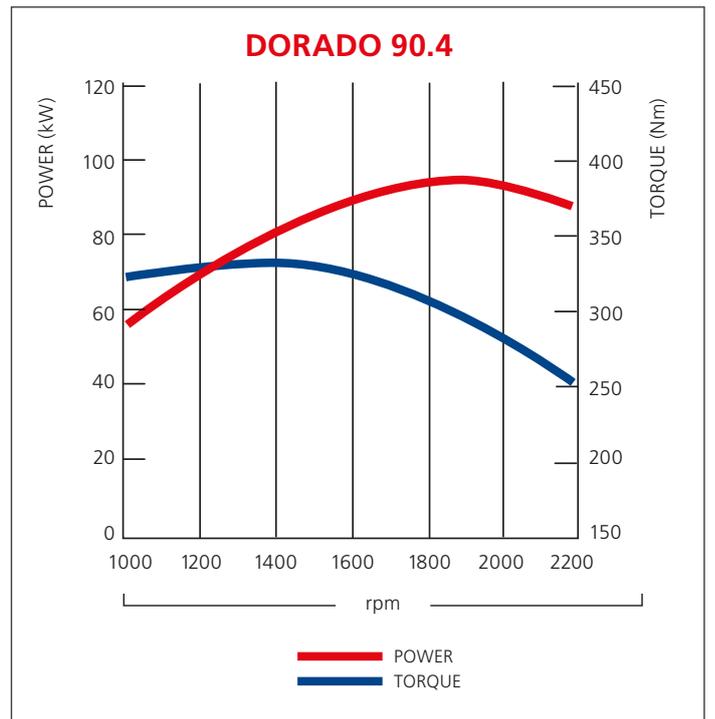
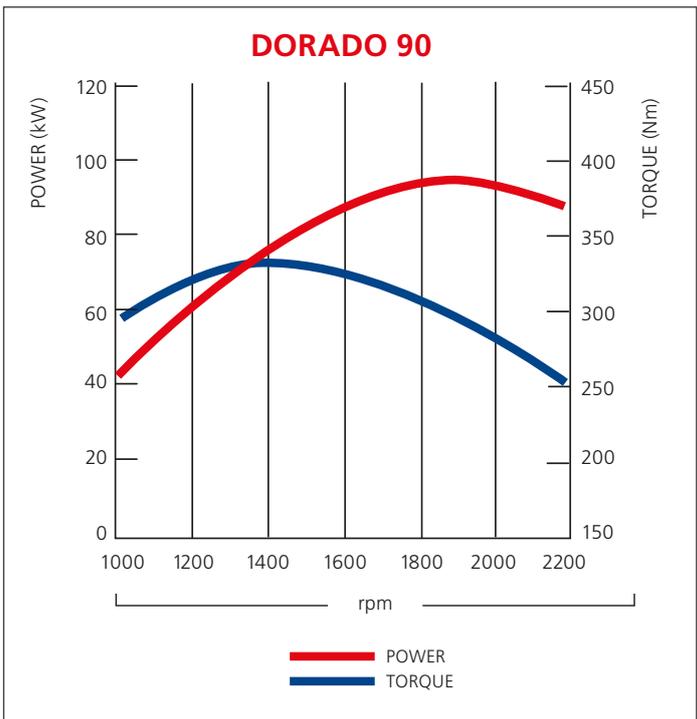
number of advantages: increased power, reduced emissions and lower engine operating temperature. The low operating speed of the crankshaft, which features a new design and is manufactured from forged steel for greater durability, subjects the moving parts of the engine to less stress and reduces noise and vibration, for even better driver comfort. The wiring and all the various components under the hood have been located for greater protection and durability, and to allow easier access to the various service points. All facilitated by a monobloc hood. The optimised fluid dynamics of the engine, made possible by the new geometry of the individual cylinder heads and combustion chambers, help improve the diesel combustion process,

letting Dorado tractors take full advantage of the performance of the engine while significantly reducing fuel consumption.

All-electronic engine management

All models have electronic engine management: an advanced feature in which the fuel supply is always correct, depending on engine speed and load, thus optimising consumption. With the aid of specific sensors, the electronic control unit monitors all operating parameters, constantly setting them to the optimal values via injection management. Optimum fuel delivery is ensured to provide consistent performance. Thanks to this system, the rated engine speed is 2.200 rpm, with constant torque. All this allows optimum power availability with very low consumption. This device lets the driver set, store and recall minimum and maximum engine speeds to simplify headland turning operations.





Maximum efficiency with Powershift and Overspeed.

Powershift

Versatility and efficiency are the two main characteristics of the SAME Dorado, thanks to the transmission that can offer up to 3 ranges (with supercreeper) and 5 gears with 3 Powershift speeds, for a total of 45 forward and 45 reverse speeds. For a more traditional specification, you can opt for an easy-to-use and just as functional mechanical gearbox. With the Powershift gearbox, the driver has the possibility to change speed quickly, without pressing the clutch pedal, optimising ground speed for the job at hand: in this way, the transmission

loading can be reduced, maintaining optimum engine speed. For even greater comfort, a button on gear lever lets the driver shift gears smoothly and progressively without pressing the clutch pedal.

Overspeed

But that's not all. For maximum performance, Overspeed is available: a gearbox with specifically spaced gear ratios enabling a theoretical top speed of 50 km/h with the engine at economy speed (top speed is limited electronically to 40 km/h). The Overspeed gearbox means that the tractor can be driven on the road at 40 km/h in top gear, with the engine at maximum economy speed, or in the next lowest gear, to take full advantage of the pulling power of the engine. Driving at low engine speed not only reduces fuel consumption, but also means that the engine is maintained close to maximum torque. All this translates into an optimal power curve, reduction of fuel consumption and enhanced driving comfort, thanks to lower noise and less vibrations. The Overspeed gearbox gives the tractor the capability to reach a top speed of 40 km/h regardless of the tyre size fitted, significantly increasing comfort during road transport use. On average, the Overspeed gearbox allows the tractor to attain a top speed of 40 km/h in 5th gear and in High range at an engine speed 400 rpm below maximum power speed, equating to fuel savings of 11 to 12%.





Hydraulic reverse shuttle with Stop&Go. Goodbye clutch!

With the hydraulic reverse shuttle, SAME provides an industry leading innovation: The Stop&Go system. This feature extends the characteristics and potential of the shuttle, providing the driver with a higher level of manoeuvrability, especially when it is necessary to stop the tractor at irregular time intervals, such as, for example, in operations with the front loader, when hooking up implements or during hill starts. With the Stop&Go function, the driver can in fact stop the tractor and set off again by simply using the brakes, without using the clutch pedal. Technically the

system is managed by an electronic control unit that processes the information received from the shuttle lever on the steering column, from the braking system and from a sensor situated in the rear part of the gearbox, recording the ground speed of the tractor. Based on the signals received, the control unit is able to control (via special solenoid valves) the starting or temporary stopping of the tractor, without the need to use the clutch pedal. The driver merely has to press the brake pedal to stop the tractor at any time, and the system automatically puts the inversion manoeuvre on hold.

When the driver then releases the brake pedal, the Stop&Go function resumes the inversion manoeuvre, engaging the relative hydraulic clutch (one for forward drive and another for reverse) progressively and smoothly to restore drive positively and without uncomfortable jolting. This makes manoeuvring the tractor much simpler, as well as improving safety, reliability and driver comfort.



Hydraulic reverse power shuttle

To complement the more advanced versions, the under-load hydraulic reverse shuttle is available: with 2 Long Life multi-plate wet clutches (for greater durability and reliability), SenseClutch and a dedicated electronic control unit permitting direction inversion manoeuvres with no interruption in drive at speeds as high as 13 km/h without risk to the mechanical components of the drivetrain. This feature allows quick directional change when undertaking manoeuvres and headland turns. Situated under the steering wheel, the ergonomic and easy to use shuttle control lever also has a neutral position and an interlock function for working in total safety.



Power take-off. Great versatility.

The versatility of the Dorado range also extends to the choice of PTO speeds offered: with multiplate wet clutch, 540/540 ECO/1000 rpm speed and ground speed PTO. This means that the tractor can work with a wide and varied selection of implements with unrivalled economy and productivity. These characteristics, combined with a low weight/power ratio, make Dorado tractors the ideal choice for PTO applications. The PTO selection and engagement is extremely simple: the controls are ergonomic and easy to use, whilst a dedicated active digital display on the instrument panel shows the operating speed.

Straightforward and efficient management of all implements

The Dorado offers a comprehensive range of implements to be able to do any job. For this reason the hydraulic system has been designed and implemented for application of all tasks with ease and precision.

The hydraulic system includes a specific 54 L/min pump for the robust rear lift and for the 6-way auxiliary valves, allowing any hydraulically controlled and adjusted implement to be used to its full potential. The auxiliary valves have a flow regulator, providing further possibilities of use and optimum flow output. The hydrostatic steering, on the

other hand, has an independent pump ensuring smooth handling, even at low engine speeds, a situation typical when doing general farm jobs around the yard.

Electronic hitch Power and precision

For high precision jobs, the electronic rear hitch can control implements with extreme accuracy and precision. The electronic rear lift is also available with an auto PTO, which automatically engages and disengages when the implement is lowered or raised. With a particularly robust design, the rear hitch of the Dorado has a lifting capacity 3,000 kg, which can be increased



to 3,600 kg by adding additional lift rams. The button for proportionally controlling raising and lowering of the linkage arms facilitates implement coupling. For those requiring front-mounted implements, these tractors may also be equipped with a front linkage (with a load capacity of 1,750 Kg) and a 1,000 rpm front PTO: an attachment which will further extend the capabilities of the Dorado. It can also be used for carrying front ballast for the tractor.



Top class comfort.

A made-to-measure driving seat

The Dorado offers a driving seat which can perfectly adapt to the driver's characteristics, ensuring automotive-level comfort.

The air suspension seat with seat belt adapts perfectly to the weight and

height of the driver, who has ample manoeuvring space. The superior comfort of the flat platform suspended on silent blocks, suspended pedals for the hydraulic clutch and brakes, and lateral gear shift levers further alleviate fatigue, as does the layout of the controls on the console to the right of the driver.

The special curvature of the windows, together with the narrow and tapered hood, ensure greater driving comfort and optimum visibility in all directions.





The right climate for working productively.

The Dorado offers an additional level of comfort, thanks to the reduced in-cab noise levels and pressurised cab, also with air conditioning. With the high-visibility roof, the air conditioning system is situated in the rear part under the roof, whilst the air distribution vents are also positioned towards the floor, with 4 adjustable vents, in addition to the 4 vents in the upper part of the roof. Over the entire glass

area, demisting and defrosting is particularly effective. For applications with front implements, the high-visibility roof is also available which, in addition to ensuring complete visibility of the extremity of the loader, ensures improved distribution of air in the cab.



Dorado comfort means, above all, utmost safety

Comfort for Dorado also means utmost safety. The Dorado incorporates an integral hydrostatic braking system on all four wheels, implemented with wet disc brakes, also on two-wheel drive versions. The system ensures safe and effective stopping of the tractor at high speed and with heavy loads. The soft and light hydrostatic control

requires only minimal pedal pressure. Finally, for total safety even when at rest on sloping ground, the Dorado has a completely independent parking brake, using wet discs to lock the transmission. The SAME Dorado is a revolutionary tractor concept, versatile and fully adaptable to the needs of those who use it. The ideal answer for those seeking a reliable and versatile partner.



Dorado Classic. Surprisingly versatile.

The Dorado range has been further extended in the medium-low power segment with a simple, reliable and economical tractor such as the Dorado Classic. This tractor plays a leading role, not only for small farms as the main working tractor, but also in medium-sized ones to complement the larger models. This extraordinary versatility is what makes Dorado tractors ideal all-rounders for any task on the farm.

Simple high performance transmissions

Complementing the superlative efficiency typical of a mechanical transmission are intelligently spaced ratios, with a 5 speed gearbox offering a wide range of ground speeds in each range.

The Dorado Classic has a synchronised mechanical gearbox with 5 speeds in 2 ranges, for a total of 10 forward and 10 reverse speeds and synchronised reverse shuttle. The configuration with a 5 speed synchronised mechanical gearbox with three ranges plus

underdrive and supercreeper gears offers a total of 30 forward speeds and 15 reverse speeds. A top speed of 40 Km/h for both transmission configurations (on both 4WD tractor versions and 2WD versions with front brakes), makes road transport tasks quick and simple. The availability of 3 PTO speeds (540 - 540ECO - 1000) allows full power to be delivered with maximum reliability. A Ground speed PTO is also available for more demanding transport tasks. Engagement of the rear PTO is mechanical and takes place by means of a lever on the left side of the seat.



Hydraulic hitch: simple and precise

The hydraulic hitch controls rear implements effectively, with precise position, draft and mix control. With a flow rate of 42 or 50 l/min, the pump delivers more than adequate performance for this class of machine, while 4/6 way distributors offer complete control over the functions and settings of any hydraulic implements used. For greater implement coupling convenience, a 3-point hitch is also available with automatic quick coupling linkage. Lifting capacity of 3.600 kg with assistor rams.

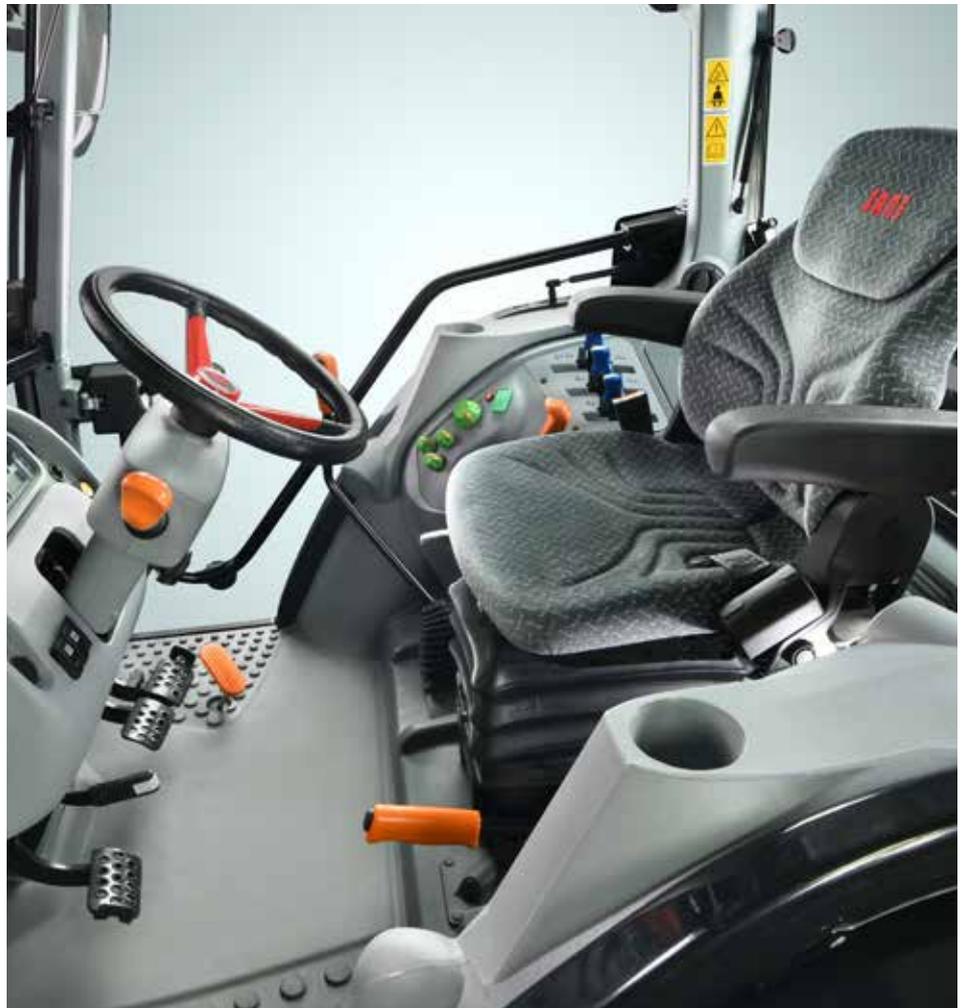
Constant adherence and safety

Even in hilly and very challenging terrain conditions, SAME Dorado Classic tractors keep on working with sure-footed safety. The sufficient ground clearance, correct weight distribution and effective front-wheel drive (engaged via a lever on the left side of the seat), with wet disc brakes, ensure productivity and short stopping distances, even with heavy mounted implements. In addition to 4-wheel braking, the differential lock (100% front and rear) ensures maximum traction even in the most adverse conditions. The hydrostatic steering has a completely independent pump, capable of ensuring light steering even at low engine speeds.

Cab: a protected and safe environment

The Dorado Classic range has a cab with a flat platform suspended on Silent-Blocks. The driving area is spacious, comfortable and the driver can easily get on and off. A proper work place and driving position is ensured by suspended pedals and adjustable steering wheel. SAME Dorado Classic tractors feature a cab protecting the driver against noise - with high performance soundproofing materials - and dust, with a high capacity air filter and perfectly airtight

door and window seals. Accessibility and interior comfort are ensured by doors with a wide opening angle, strengthened glass windows, driving seat with armrests and, for the more discerning, air suspension. Good all-round visibility is ensured by large windows and narrow cab posts. Heating, air conditioning, digital clock, radio ready, sun blind, front and rear work lights and rear windscreen wiper complete the available options.



ENGINE			80	90	90.4	100.4
Emissions			Stage III B	Stage III B	Stage III B	Stage III B
Model			FARMotion	FARMotion	FARMotion	FARMotion
Cylinders/Capacity/Valves	No./cc/No.		3/2887/2	3/2887/2	4/3849/2	4/3849/2
Common Rail	bar		2000	2000	2000	2000
Turbo intercooler			●	●	●	●
Maximum power (ECE R120) at 2000 rpm	kW/hp		55,4/75	65/88	65/88	75/102
Power at rated engine speed (ECE R120) @ 2200 rpm	kW/hp		55,4/75	61,6/84	61,6/84	71.1/97
Max. torque @ 1600 rpm	Nm		341	354	354	408
Torque rise	%		40	32	32	32
Electronic engine governor system			●	●	●	●
Exhaust gas aftertreatment system			DOC / exEGR	DOC / exEGR	DOC / exEGR	DOC / exEGR
Fuel tank capacity	litres		100	100	100	100
SHUTTLE						
Mechanical reverse shuttle			●	●	●	-
Hydraulic reverse power shuttle (on GS version)			●	●	●	●
Stop&Go system (on GS version)			●	●	●	●
MECHANICAL GEARBOX						
Number of speeds with supercreeper and underdrive	No.		30+15	30+15	30+15	30+15
Overspeed (40 Km/h Eco)			●	●	●	●
POWERSHIFT TRANSMISSION						
Number of speeds with supercreeper gear	No.		45+45	45+45	45+45	45+45
Number of Powershift gears	No.		3	3	3	3
Overspeed (40 Km/h Eco)			●	●	●	●
REAR PTO						
Multiplate wet clutch			●	●	●	●
electrohydraulic engagement			●	●	●	●
PTO 540/540ECO			●	●	●	●
PTO 540/540ECO/1000			○	○	○	○
Ground speed PTO			○	○	○	○
FRONT PTO						
PTO 1000			○	○	○	○
FRONT AND REAR AXLE						
Electrohydraulically engaged 4WD			●	●	●	●
Electrohydraulically engaged differential lock			●	●	●	●
Steering angle 2WD	degrees		-	70°	70°	-
4WD steering angle	degrees		55°	55°	55°	55°
BRAKES						
4-wheel braking			●	●	●	●
Mechanical parking brake			●	●	●	●
Hydraulic or pneumatic trailer braking valve			○	○	○	○
STEERING						
Hydrostatic steering with independent pump			●	●	●	●
LIFT						
Mechanically controlled rear lift			●	●	●	●
Electronically controlled rear lift			○	○	○	○
Rear hitch lift capacity (std)	kg		3000	3000	3000	3000
Rear hitch lift capacity (opt)	kg		3600	3600	3600	3600
Front hitch			○	○	○	○
Front hitch capacity	kg		1750	1750	1750	1750
Hydraulic System						
Pump output	l/min		54	54	54	54
Open-centre hydraulic system			●	●	●	●
Rear hydraulic auxiliary distributors	No.		3	3	3	3
CAB						
Air conditioning			○	○	○	○
High visibility roof			○	○	○	○
Suspension driver seat			●	●	●	●
DIMENSIONS AND WEIGHTS						
Standard rear tyres			420/70R30	420/70R30	480/70R30	480/70R30
Max. length without rear linkage	mm		3430	3430	3560	3560
Width (min-max)	mm		1940-2240	1940-2240	2005-2405	2005-2405
Wheelbase (4WD/2WD)	mm		2100/-	2100/2140	2230/2270	2230/-
Front track (min-max)	mm		1460-1760	1460-1760	1450-1850	1450-1850
Rear track (min-max)	mm		1500-1800	1500-1800	1500-1900	1500-1900
Max. height at cab	mm		2460	2460	2,485	2,485
Weight with cab	kg		3200	3200	3300	3300
Maximum load capacity	kg		5200	5200	5200	5200

- STD
- OPT
- Not available

ENGINE		70 Classic	80 Classic	90 Classic	90.4 Classic
Emissions		Stage III B	Stage III B	Stage III B	Stage III B
Model		FARMotion	FARMotion	FARMotion	FARMotion
Cylinders/Capacity/Valves	No./cc/No.	3/2887/2	3/2887/2	3/2887/2	4/3849/2
Common Rail	bar	2000	2000	2000	2000
Turbo intercooler		●	●	●	●
Maximum power (ECE R120) at 2000 rpm	kW/hp	48/65	55,4/75	65/88	65/88
Power at rated engine speed (ECE R120) @ 2200 rpm	kW/hp	48/65	55,4/75	61,6/84	61,6/84
Max. torque @ 1600 rpm	Nm	292	341	354	354
Torque rise	%	41	40	32	32
Electronic engine governor system		●	●	●	●
Exhaust gas aftertreatment system		DOC / exEGR	DOC / exEGR	DOC / exEGR	DOC / exEGR
Fuel tank capacity	litres	65	65	65	65
SHUTTLE					
Mechanical reverse shuttle		●	●	●	●
MECHANICAL GEARBOX					
Number of speeds	No.	10+10	10+10	10+10	10+10
Number of speeds with supercreeper and underdrive	No.	30+15	30+15	30+15	30+15
REAR PTO					
Dry clutch		●	●	●	●
Mechanically controlled		●	●	●	●
PTO 540/540ECO		●	●	●	●
PTO 540/540ECO/1000		○	○	○	○
Ground speed PTO		○	○	○	○
FRONT AND REAR AXLE					
Mechanically engaged 4WD		●	●	●	●
Mechanically operated differential lock		●	●	●	●
2WD steering angle	degrees	–	–	70°	70°
4WD steering angle	degrees	55°	55°	55°	55°
BRAKES					
4-wheel braking		●	●	●	●
Mechanical parking brake		●	●	●	●
Hydraulic or pneumatic trailer braking valve		○	○	○	○
STEERING					
Hydrostatic steering with independent pump		●	●	●	●
LIFT					
Mechanically controlled rear lift		●	●	●	●
Rear hitch lift capacity (std)	kg	2650	2650	2650	2650
Rear hitch lift capacity (opt)	kg	3600	3600	3600	3600
Hydraulic System					
Pump output	l/min	42/50	42/50	42/50	42/50
Open-centre hydraulic system		●	●	●	●
Rear hydraulic auxiliary distributors	No.	2/3	2/3	2/3	2/3
CAB					
Air conditioning		○	○	○	○
Suspension driver seat		●	●	●	●
DIMENSIONS AND WEIGHTS					
Standard rear tyres		420/70R30	420/70R30	420/70R30	480/70R30
Max. length without rear linkage	mm	3430	3430	3430	3560
Width (min-max)	mm	1940-2240	1940-2240	1940-2240	2005-2405
Wheelbase (4WD/2WD)	mm	2100/-	2100/-	2100/2140	2230/2270
Front track (min-max)	mm	1460-1760	1460-1760	1460-1760	1450-1850
Rear track (min-max)	mm	1500-1800	1500-1800	1500-1800	1500-1900
Max. height at cab	mm	2460	2460	2460	2485
Weight with cab	kg	3200	3200	3200	3300
Maximum load capacity	kg	5200	5200	5200	5200

- 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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Area dealer

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