



Virtus



The ideal tractor for thinking big.

The advanced technology of the SAME Virtus puts you in total control, even in the toughest situations.

SAME presents the new Virtus 120, 130 and 140. Even more evolved than ever, to be even more productive and efficient.

The new Virtus family combines the legendary reliability of the SAME brand with cutting edge technology to offer tractors that are perfectly suited for modern agriculture. This technology is in every aspect, from the beating heart of these machines - state of the art FARMotion engines with SCR, which match superb performance with impressive fuel economy. But that's not where it stops: the highly energy efficient hydraulic system, a driver zone offering extraordinary comfort, the choice of numerous configurations and the large number of accessories available also make this an extremely versatile range catering for the needs of any application, even the most specific and challenging. Equipping these tractors with the optional Agrosky automatic satellite guidance system takes productivity to a whole new level.

The engine with SCR is conformant with the most stringent emissions regulation (Stage IV), the choice of transmissions offers a top speed of 40 km/h attainable at economy engine speed and the hydraulic system is particularly efficient: all of which contributing to keeping running costs low. On top of all this is a choice of transmissions based on a 5 speed gearbox module with 3 Powershift ranges, configurable to offer from 30 speeds in both directions to an incredible 60+60 speeds (with underdrive and supercreeper gear). With a Virtus tractor, you'll always be able to choose the perfect drive ratio for any task!





SAME Virtus 120, 130 and 140 in brief.

1

UNDERCOWL AREA

- 9" Powercore air filter
- Electronically controlled viscstatic fan (e-Visco)
- Radiator guard/cleaning screen

2

ENGINE

- FARMotion engine
- Stage IV
- 4 cylinders / 3849 cm³
- 116-136 HP (85-100 kW)

3

TRANSMISSION

- 3-stage Powershift
- 60+60 with underdrive and supercreeper gear
- Automatic Powershift (APS)
- Speed Matching

4

FRONT AXLE

- Suspension
- ASM system, for automatic control of differential locks and 4WD
- SDD rapid steering system
- Integrated wet disc brakes

5

WORK LIGHTS

- Up to 12 work lights
- LED technology





6

LIFT

- Electronically controlled rear lift
- Maximum lift capacity 7000 kg
- Category II or III N 3-point linkage
- 2880 kg front lift

7

PTO

- 4-speed rear PTO
- Electrohydraulically engaged
- Ground speed PTO with independent shaft
- 1000 rpm front PTO

11

SAFETY

- FOPS cab protection
- Brakes on all 4 wheels
- HPB parking brake
- HEB hydraulic engine brake function
- Electronic battery master switch in cab

10

CAB

- InfoCentre^{Pro}
- iMonitor 2, with 8" touch screen
- Mechanical or air sprung suspension
- Passenger seat
- Automatic climate control
- High visibility roof
- ISOBUS

9

HYDRAULIC SYSTEM

- 90 l/min or 120 l/min LS pump
- Up to 8 ways, mechanically controlled
- Up to 10 ways, electronically controlled
- Power Beyond
- 2 front couplers

8

BRAKES

- Hydraulic braking
- Pneumatic braking
- Hydraulic + pneumatic braking

An engine conceived for farming: powerful, generous and efficient.

An engine conceived from the drawing board for agriculture, but also to be efficient and to comply with the most stringent emissions regulations.

SAME Virtus tractors are powered by the four cylinder FARMotion engine, a powerplant with fully electronic engine management developed specifically for agriculture which delivers extraordinary performance combined with impressive fuel economy.

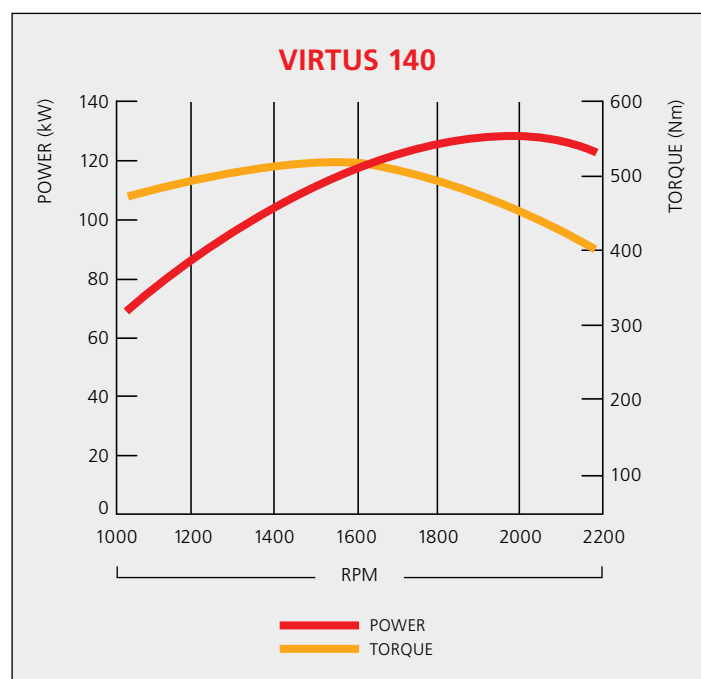
The four-cylinder architecture, turbocharged forced induction with intercooler and wastegate, fully electronically controlled Common Rail direct injection, electronically controlled viscous cooling fan, optimised combustion chamber geometry and downsized engine capacity (3,849 cm³) all contribute to minimising fuel consumption while improving power

and torque delivery. A formidable technological package offering the best performance and efficiency both in the field and on the road. FARMotion engines use cutting edge solutions to comply with the most stringent emissions control regulations, with a lightweight, cooled external EGR systems working in conjunction with an SCR catalytic converter to cut emissions drastically without penalising fuel economy.

For peerless safety on the road in all conditions, Virtus tractors are offered with the optional HEB (Hydraulic Engine Brake) system, which uses the hydraulic system to augment the retarding action of the engine brake, especially when

driving downhill. A separate pedal lets the driver use the engine braking effect to control the deceleration of the tractor without overloading the brakes, with additional retarding action generated hydraulically by the HEB system by engaging the electronically controlled viscous fan.

On Virtus tractors, the layout of the undercowl area has also been optimised to allow for these new systems and functions without compromising visibility for the driver or complicating regular maintenance procedures.



A huge choice of configurations to cater for any need.

So many transmission configurations to choose from, to give the best solution possible with no compromises!

Offering extraordinary scope for configuration, the choice of transmissions available caters to perfection to the needs of any farm. The standard configuration consists of a mechanical 5 speed synchronised gearbox with two ranges and a 3 stage Powershift unit, for seamless power delivery and impeccable comfort even in the most challenging working conditions. Base version Virtus tractors already offer 30 speeds in both directions, which, with the addition of the optional supercreeper gear, is doubled to 60 speeds in both forward and reverse directions, for a minimum ground speed of just 134 metres per hour at maximum engine speed. At the opposite end of the speed scale, all transmission versions allow the tractor to reach a top speed of 40 km/h at low engine speeds, for maximised fuel economy and comfort. With the APS (Automatic Powershift) and SpeedMatching functions, the most suitable Powershift ratio is selected automatically for the current ground speed, while proportional solenoid valves ensure smooth shifting in all conditions, for more relaxed driving even when pulling the heaviest loads. Also standard are a Powershift hydraulic reverse shuttle (with electronically controlled Long Life multiplate wet clutch) and the SenseClutch, Stop&Go and ComfortClutch functions. Controlled from a simple button, the ComfortClutch function lets the driver shift the 5 speed gearbox without having to use the clutch pedal.

The PowerShuttle lets the driver select from 5 different levels of responsiveness for direction inversion manoeuvres; selecting a less aggressive action when working with a front loader, for example, significantly reduces the risk of sudden pitching when inverting direction, increasing safety in particular when handling loose materials. The ASM system (available for 130 and 140 models) automatically engages and disengages the 100% locked differential locks and front wheel drive

system; while the optional radar system adds the ability to monitor and control slippage in real time. As further testimony to the extreme versatility of the SAME Virtus 120-140 family, these tractors are now available with special watertight seals for working with total peace of mind even in flooded rice paddies.



All the hydraulic flow rate you'll ever need, and an unbeatable choice of PTO configurations

Enough hydraulic power to tackle any task and a choice of configurations to give you the perfect solution while saving fuel.

The hydraulic system equipping Virtus tractors was conceived for maximum power and versatility. The extensive choice of configurations offered starts with a basic open centre system with a 90 l/min pump which feeds up to 8 mechanically controlled rear couplers. Opting for the Load Sensing system allows for a hydraulic system with up to 10 electronically controlled rear couplers, with timer and

flow regulation functions for each distributor. All configurations can also be equipped with the "Power Beyond" system.

The rear lift comes as standard with quick hitch couplers and an anti-bounce function, which damps the oscillations generated by carried implements. The standard maximum lift capacity of 5000 kg can be increased to 7000 kg by fitting optional supplementary lift cylinders (standard

on Virtus 140 tractors). The all-new and potent optional front linkage boasts a maximum load capacity of 2880 kg, and may also be equipped with an additional 2 way hydraulic distributor.



tions.

With an extensive choice of hydraulic system configurations, SAME Virtus tractors can work effectively with any implement.

Testifying to the extraordinary versatility of the range, Virtus tractors are available with all 4 of the standard PTO speed modes, while all PTO versions come with a progressively engaged electrohydraulic multiplate wet clutch. Even in the most basic configuration, Virtus tractors offer both 540 and 1000 rpm modes; but for those for whom only the very best will do, these tractors are available with 540, 540ECO, 1000 and 1000ECO PTO modes, and also with a groundspeed PTO (with independent flange shaft). Also standard on Virtus tractors is the Auto PTO function (which automatically engages and disengages the PTO in relation to the position of the implement hitched to the 3-point linkage), and a practical, interchangeable splined stub shaft. Naturally, a 1000 rpm front PTO is available as an option.



Speed is important. But stopping in time is even more vital.

For unparalleled safety, Virtus 120-140 tractors are equipped as standard with the Hydraulic Parking Brake (HPB) system, which generates the high pressures necessary to lock the rear brake discs and hold the tractor securely on any gradient. In addition to more effective braking action, this innovative system also reduces transmission power consumption by a remarkable 1.5 kW (2 HP) compared with a vehicle equipped with a conventional parking brake. For total safety in all conditions, in addition to HPB, Virtus 120-140 tractors are also equipped as standard with a truly integrated system with multiple wet-disc brakes on all four wheels and automatic front wheel drive engagement under braking. Make quick headland turn manoeuvres is no

longer a problem. Uncoupling the two brake pedals lets the drive brake the right and left hand rear wheels independently and drastically reduce the turning circle. The Powerbrake system, offered as standard, delivers immediately responsive, potent and perfectly controllable braking action with minimal pedal effort. For total peace of mind, the Powerbrake system permits up to 10 emergency brake applications even after the engine has been switched off. Self-adjusting brake pads-disc clearance improves response times, minimises wear and keeps transmission oil temperatures lower, for maximum braking performance in all conditions. Towing on roads is also simpler and more flexible than ever: Virtus tractors may be fitted with a choice of different

trailer braking systems (with hydraulic or pneumatic circuits or even combined hydraulic/pneumatic circuits). The special front axles are designed to permit an impressive maximum steering angle of 55° and withstand a maximum load of up to 4000 kg, while for maximised productivity, the front axles are equipped as standard with an electrohydraulically engaged 100% lockable differential lock (controllable automatically by the ASM function). For even greater comfort and safety when driving on the road, these tractors may be equipped with optional electronically controlled, hydropneumatic front axle suspension.





The superior comfort of the Virtus lets you even the longest working day with ease

You'll feel right at home in the driver zone, where even the longest shift is no longer a problem.

The new driver zone layout on Virtus 120-140 tractors has been specifically designed to make the machine extremely simple to operate, ensure unobstructed visibility and, above all, offer unparalleled levels of comfort.

The cab structure ensures an unobstructed view around the tractor while the new InfoCentre^{Pro} instrument panel now includes a 5" colour TFT display in the centre, offering the driver customisable views of a wide range of parameters for monitoring the most important functions of the tractor. Naturally, the cab is just as configurable as the rest of the tractor, with a choice of different hydraulic control types, glazing options and work lights. To make so much advanced technology as simple as possible to use, the Virtus 120-140 family also uses the brand's tried-and-tested colour coded scheme

with immediately and intuitively identifiable controls. The controls themselves are organised rationally and ergonomically around the driver according to frequency of use. The all-new Hydro Silent-Block cab mounts reduce the vibration transmitted to the driver by 40% compared with conventional mounts. But for even greater comfort, the cab may be equipped with mechanical or air-sprung suspension; while the seats offered also feature advanced air-sprung suspension. For those choosing Virtus not only to maximise production today but to keep on doing so in future, these tractors may be equipped with the optional iMonitor with 8" touch screen, which lets the driver monitor all machine functions from a single, compact instrument.

The ISOBUS function allows the tractor

to be equipped with ISOBUS compatible implements without having to install additional, bulky control devices in the cab.

In addition to the Agrosky automatic satellite guidance system, Virtus 120-140 tractors may also be equipped with up to 2 optional external view cameras and up to 12 work lights - now with 4th generation LED technology.

For uncompromised comfort when working with a front loader, these tractors may be equipped as an option with the practical SDD system, which halves the number of steering wheel turns necessary to perform manoeuvres at low speeds. An FOPS (Falling Object Protective Structure) homologated reinforced roof is also available to offer protection against objects falling accidentally from the raised loader.



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		120	130	140
ENGINE				
Model		FARMotion	FARMotion	FARMotion
Emissions compliance		Stage IV	Stage IV	Stage IV
Exhaust gas after-treatment system	Type	SCR	SCR	SCR
Cylinders/Displacement	No./cc	4/3849	4/3849	4/3849
Bore/Stroke	mm	103/115,5	103/115,5	103/115,5
Turbo intercooler	Type	●	●	●
Common Rail Injection @ 2000 bar	Type	●	●	●
Maximum power @ 2200 rpm	kW/hp	85/116	93/126	100/136
Rated power @ 2200 rpm	kW/hp	80,6/110	88,2/120	94,9/129
Max. torque @ 1600 rpm	Nm	462	506	544
Torque backup	%	32%	30%	28%
Viscostatic fan		●	●	-
Electronic viscostatic fan		○	○	●
Hydraulic Engine Braking (HEB)		○	○	○
Diesel fuel tank	l	185	185	185
AdBlue tank	l	12	12	12
TRANSMISSION				
Type		Mechanical with 3 Powershift 3 stages		
Ranges	No.	2 / 4 (with mini and super-creeper gears)		
5-speed gearbox		●	●	●
Number of speeds		30+30	30+30	30+30
Number of speeds with mini and supercreeper gear	No.	60+60	60+60	60+60
Max. speed	km/h	40 (at economy engine speed) / 50		
SenseClutch hydraulic reverse shuttle		●	●	●
HPB parking brake		●	●	●
Four wheel drive electrohydraulically engaged		●	●	●
Electro-hydraulically engaged differential locking		●	●	●
ASM system		-	●	●
Suspended front axle		○	○	○
Rear PTO540/1000		●	●	●
Rear PTO 540/540ECO/1000/1000ECO		○	○	○
Ground speed PTO with independent spigot.		○	○	○
Front PTO speed (optional)		1000	1000	1000
HYDRAULICS				
90 l/min hydraulic system (open centre)	l/min	●	●	●
120 l/min hydraulic system (Load Sensing)	l/min	○	○	○
Mechanically controlled rear distributors	No.	3/4	3/4	3/4
Electronically controlled rear distributors	No.	4/5	4/5	4/5
Electronically controlled front distributors	No.	1	1	1
Electronically controlled rear lift		●	●	●
Rear lift capacity	kg	5000	5000	-
Rear hitch lifting capacity with supplementary lifting cylinders	kg	7000	7000	7000
Rear 3-point linkage category		II or III N	II or III N	II or III N
Front hitch (optional)	kg	2.880	2.880	2.880
Trailer brake		Hydraulic (○) / Pneumatic (○) / Hydraulic + Pneumatic (○)		
CAB				
Cab suspension		Hydro Silent-Block (●) / Mechanical (○) / Air-sprung (○)		
InfoCentre ^{pro} with 5" colour display		●	●	●
iMonitor2 with 8" touch screen		○	○	○
Mechanical/air suspension driver's seat		●/○	●/○	●/○
Passenger seat		○	○	○
Manual A/C		○	○	○
Automatic A/C		○	○	○
High visibility roof		○	○	○
FOPS roof protection		○	○	○
LED work lights		○	○	○
SDD		○	○	○
DIMENSIONS AND WEIGHTS				
Wheelbase	mm	2540	2550	2550
Length	mm	4428	4428	4428
Width (min-max)	mm	2063-2727	2147-2727	2147-2727
Height (centre of rear axle - roof)	mm	2025	2025	2025
Weight	kg	5300	5600	5600
Maximum permissible load	kg	8000	9000	9000

- STD
- OPT
- Not available

Area dealer

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

SAME is a brand of  SDF



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