SAME DEUTZ-FAHR

Frutteto^3

80 | 90 | 100

www.same-tractors.com

SAME

Rely on us.


SAME

New Frutteto³ range. Specialist tractors for specialized crops

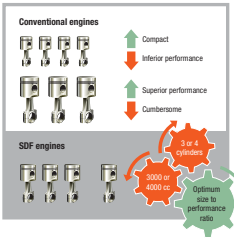
Talk about SAME, you're talking about specialists… the two really are inseparable. And small wonder. The company has a long tradition of bold innovation and unceasing improvement, culminating today in the launch of the new Frutteto³ range on the market. An intelligently structured family of specialist tractors, designed and developed specifically for orchard and vineyard applications and capable of responding effectively to the widest variety of needs.

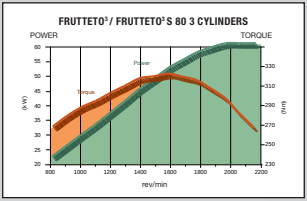
The fact that there are orchard and vineyard versions with cab, or with specific platforms to suit different tyre sizes, mechanical or electro-hydraulic controls, and a generous selection of equipment packages (LS and GS), means that there will always be a Frutteto³ machine with the working configuration best able to maximize output in orchards and vineyards, both profitably and professionally. Compact dimensions ensure manoeuvrability in the tightest spaces, and with a short wheelbase and an optimum steering angle of 60° for 4 wheel drive models (70° for 2 wheel drive), even the narrowest headlands can be negotiated with incomparable ease.

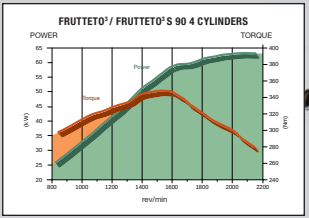
1000 cc, 3 and 4 cylinder turbo/intercooled engines. The win-win compromise

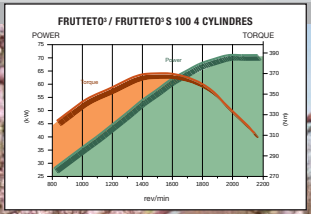
The heartbeat of the Frutteto[3] range is provided by a series of next-generation engines developed and manufactured by SAME DEUTZ-FAHR, which feature an innovative exhaust gas recirculation system ensuring compliance with TIER III emission standards.

Unitary displacement 1000 cc, two basic configurations: 3-cylinder turbo/intercooled, rated 82 HP, and 4-cylinder turbo/intercooled, rated 85 and 96 HP. With this type of diversified offering, prospective users can gear their selection to favour compactness or horsepower, depending on the specific needs they may have. In effect, the engine with one-litre per cylinder configuration represents a "win-win compromise" in the specialist tractor segment when compared to the traditional market options, namely "fractional" horsepower engines on the one hand, of unitary displacement less than 1000 cc - compact but with no great power - and "conventional" engines larger than 1000 cc, which offer higher performance but are too bulky for specialist applications, and therefore available only in 3-cylinder versions. SAME DEUTZ-FAHR 82, 85 and 96 HP engines are intercooled. The intake air flow from the turbocharger is cooled before entering the cylinder, increasing the level of oxygen and improving combustion. This gives a considerable boost in engine power, reduces fuel consumption and lowers the running temperature of the engine. Another unique feature is the exclusive SDF fuel injection system, which uses an individual injection pump for each cylinder and is significantly more advanced than systems using rotary pumps. The SDF system guarantees a particularly high operating pressure (1400 bar) and instantaneous injection, which is governed by a load-responsive electronic control unit, optimizing performance and fuel consumption. And with cruise control, the operator can, at a touch of a button on the console, save a given engine speed, which the ECU will then seek to maintain constant under changing load conditions, for a steadier and more uniform work rate, particularly beneficial when spraying.




FRUTTETO² / FRUTTETO²S 80 3 CYLINDERS
POWER
TORQUE
Power
Torque
(kW)
(Nm)
rev/min


FRUTTETO² / FRUTTETO²S 90 4 CYLINDERS
POWER
TORQUE
Power
Torque
(kW)
(Nm)
rev/min


FRUTTETO³ / FRUTTETO³S 100 4 CYLINDRES
POWER
TORQUE
Power
Torque
(kW)
(Nm)
rev/min

Fuel consumption down, efficiency up

All engines are equipped with hydraulic tappets, giving control over the ignition advance. When the oil is cold, these tappets lift the plunger marginally to advance the injection, eliminating the annoyance of white exhaust smoke and optimizing efficiency right from the outset. All components housed in the engine compartment (radiators, fans, pipelines, filters etc…) are designed with a firm eye on maximum functional efficiency, to facilitate routine maintenance and major servicing operations. Particular attention is given to achieving the smallest possible envelope and footprint, given that ultra compact dimensions are a key requirement for a machine designed to operate in extremely tight spaces. The coolant radiator, oil cooler and intercooler cores are all aluminium, to ensure better heat dissipation than with copper and brass; the assembly is compact, as well as being quick and easy to clean, even out in the field. A recess created in the fuel tank houses the air cleaner, which is equipped with a

dust unloader that captures and ejects the heavier particles passing through the filter. There is also the option of a reserve fuel tank under the platform, providing extra capacity without adding to the dimensions of the tractor (ground clearance remains unchanged). A standard feature on all models of the range is the transmission oil cooler, which ensures the driveline will remain at the correct operating temperature even under punishing conditions. Also installed neatly under the hood are the engine oil filter and fuel prefilter, the latter has a water separator facilitating the removal of any residual moisture in the circuit, and a new efficient exhaust silencer that reduces noise levels and can be configured either horizontally, with the tailpipe beneath the platform, or vertically.

New 100% biodiesel SDF engines

Thanks to a number of unique design features and to the use of first-rate materials in construction, the engines of the new Frutteto[3] machines are not only functional in the extreme but also totally compatible with biodiesel fuel, allowing blend ratios of up to 100% (biodiesel responding to the specifications of EN 14214:2003). Biodiesel typically has a higher viscosity than other engine fuels and is chemically more aggressive, but SDF engines are equipped with a special fuel injection system utilizing wet pumps - one to each single injector - and a fuel feed circuit with components manufactured from special materials, and consequently able to run on these new fuels without difficulty.

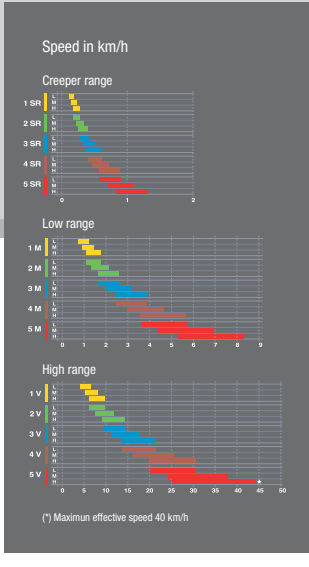
B100

The new Frutteto³ range - transmitting experience

The LS and GS transmissions of Frutteto³ and Frutteto³ S models (and of the Frutteto³ V), reflect a wealth of experience possessed by the SDF Group, with its long history of involvement in the design and development of transmissions for specialist applications, capable of responding year after year to the new and exacting needs of customers everywhere.

Versatility and effectiveness are the two main features of SAME Frutteto³ machines, which have a transmission providing up to 3 ranges (with creeper) and 5 gearspeeds with three shift-on-the-go ratios, compounding to give a total of no less than 45 forward and 45 reverse speeds. For a more traditional driving style, there is a 30+15 mechanical transmission, easy to use and no less functional.
On models with Powershift, the operator can select a marginally higher or lower gear almost instantaneously, without using the clutch pedal, adjusting the ground speed to suit the prevailing conditions: this has the effect of absorbing variations in load while maintaining an optimum engine speed throughout.
In addition, and for ultimate comfort, the gears can be shifted smoothly and effortlessly using the Comfort Clutch - a pushbutton control on the knob of the shift lever - without having to depress the clutch pedal.
And there's more besides… For maximum efficiency, the transmission can be equipped with OVERSPEED: a gearbox in which the ratios are spread to give a potential top speed of 50 km/h (limited electronically to 40 km/h for certain markets). With Overspeed, the tractor can be driven on the road at 40 km/h either in economy mode (staying in top gear), or exploiting the full performance capabilities of the engine, using a lower ratio. At slower crankshaft speeds, fuel consumption is reduced significantly, yet with the power of the engine continuing to be exploited at a speed near to that of the maximum rated torque. All these factors combine to produce an optimum power curve, better fuel economy and superior driving comfort, thanks to lower levels of noise and vibration. Finally, the ability of the Overspeed transmission to reach 40 km/h top speed is unaffected by tyre size considerations, a factor significantly increasing the efficiency and comfort of the tractor

VERSIONS	LS	GS
Transmission	30+15 - 45+45 OVERSPEED	30+15 - 45+45 OVERSPEED
Clutch	Mechanical	SENSE CLUTCH hydraulic
Shuttle	Mechanical	Hydraulic
Power take-off	Hydraulic P.t.o.	Hydraulic P.t.o.



when driving on the road, with or without a load. Also available on Frutteto[3] machines with higher equipment levels is a shift-on-the-go hydraulic reverse shuttle, using 2 oil-immersed "long life" multi-disc clutches (for greater durability and reliability) and incorporating an electronic control unit that will enable shift-on-the-go operation up to 10 km/h, safeguarding the integrity of the mechanical components involved.

The shuttle can be used to change direction in all gears, saving a considerable amount of time in manoeuvres and return passes. The shuttle lever, located beneath the steering wheel, is ergonomically designed and easy to use. It also has a "neutral" position and will function only when enabled, to ensure total safety in operation. The steering wheel and shuttle lever assembly is adjustable in height to suit the stature and preferences of the individual driver. Along with the hydraulic shuttle, SAME offers an important technological innovation: STOP&GO.

This system extends the features and the potential of the shuttle, providing the operator with a higher level of manoeuvrability, especially when the tractor driveline has to be disengaged for intervals of varying duration, such as when operating a front loader, hitching implements, or moving off on gradients. With Stop&Go installed, the movement of the tractor can be controlled utilizing only the brake pedals, with no need to operate the clutch pedal.

The system is managed by an electronic control unit that processes the data received from the shuttle lever on the steering column, from the braking system, and from a sensor located at the back of the gearbox that monitors the ground speed of the tractor. Piloting the operation of solenoid valves on the basis of the signals received, the control unit will cause the machine to move off, or suspend the shuttle manoeuvre temporarily, without any need for the clutch pedal to be used.

In practice, when the brake pedals are depressed, the tractor stops and the system will simultaneously put the operation of the shuttle "on hold". Releasing the brake pedals subsequently, the shuttle is re-enabled by the STOP&GO control unit, which guarantees a gradual and balanced engagement of the relative hydraulic clutch (forward drive or reverse drive), and the machine will move off again positively without jerking.

All this makes the tractor incomparably practical when manoeuvring, as well as safe, reliable and comfortable to operate.

Sense Clutch

Stop & Go

Frutteto³ range. Agility and stability, tailor-made

Grip and manoeuvrability.

A tight steering angle and short wheelbase make these specialist tractors easy to manoeuvre even on the narrowest headlands. And with a low centre of gravity and correct weight distribution between front and rear axles, there is no question of their longitudinal compactness jeopardizing stability on gradients.
Traction is exceptional even on the most uneven terrain, thanks to the generous degree of movement in the pivoting front axle.

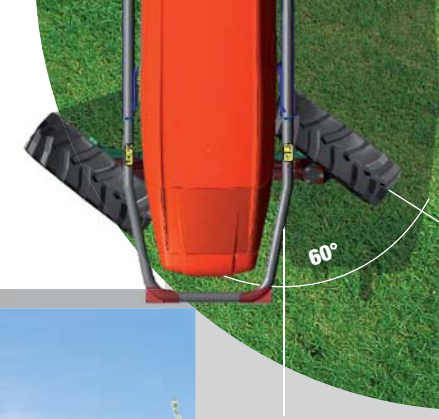
2-wheel drive axle

Pivoted 4WD axle (Frutteto³ S)

Suspended 4WD axle (Frutteto³)

Four-square performance

With four-wheel drive and electrohydraulically operated front and rear differential locks, performance and tractive efficiency are guaranteed in any situation. A slight touch on the brake pedal, and the differentials will unlock.



With this intelligent axle design you can “turn on a dime”!

Optimally arranged structure, with carefully selected front end frame geometry and hood contours, guarantees a steering angle of 60°. Manoeuvrability is second to none, with the steering made easy to handle by a dedicated hydraulic system that renders the action consistently light and responsive under all conditions.

4 disc brakes, usable one at a time if need be

All wheel hubs are equipped with hydrostatically operated, oil-immersed disc brakes.
This is a solution that ensures optimum all-wheel braking, especially on hillsides and when using mounted implements. The system incorporates a “Separate Brakes” valve allowing 3 different modes of operation: all four brakes applied, for maximum safety during transport duties; applying only the left or right side brakes,(enabled by unlatching the two brake pedals and using either the left or right); significantly reduces the normal steering circle assisting manoeuvres in tight spaces; applying one wheel brake only (rear left or right), obtainable by positioning the Separate Brakes valve to by-pass the front brakes; this will avoid soil disturbance caused when the inner front wheel is locked when turning.

Infinitely flexible hydraulics.

In specialist machines, it is essential to have an hydraulic system that will accommodate different types of implements, while guaranteeing superior lifting capacity, high oil flow rate, and great flexibility in terms of the number and positioning of spool valves.
The hydraulic system used on Frutteto[3] machines can be equipped with a single pump or with a tandem (dual) pump, rated up to 58 l/min. This initial selection opens up several options that multiply the range of features available to the user. As regards the number of spool valves installed, there are various options covering different needs.

Rear spool valves

Up to 3 double acting (6-way) mechanically operated valves with flow regulator, and the further option of 2 pressure lock spools and 1 float

Mid-tractor spool valves

with up to 4 duplicate ports (taken from rear) with option of: 2 additional mechanical spool valves (4-way) for mid tractor applications, or 3 additional electrohydraulic spool valves (6-way) with separate flow regulator controlled from joystick on the right hand console.

Always equal to your needs

As to the rear lift assembly, the geometry and construction of the links and rods and the massive strength of all the components combine to guarantee a lifting capacity equal even to the most demanding tasks. The mechanical lift is efficient and easy to use, whereas the better option for work demanding a high level of accuracy is the electronic rear lift, which ensures a hitched implement can be controlled with absolute precision. Designed with strength particularly in view, the rear lift of Frutteto^3 machines has a rated capacity of 3000 kg.

Implement hitching is also facilitated by duplicate lift controls on the rear fenders. For users needing to operate front-mounted implements, Frutteto^3 models can be provided with a front lift (rated capacity 1500kg) and front P.T.O. operating at 1000 rpm: a solution that adds further value to the versatility of the Frutteto^3, by providing a quick-hitch hanger for the front ballast weight. The Frutteto^3 is extremely versatile in the power take-off department too: oil-immersed multi disc clutch, 540/1000/540 economy speeds, and ground speed P.T.O. This level of equipment assures maximum power and reliability in spraying operations, as well as reduced fuel consumption for side shoot removal and inter-row tillage.

There is also ground speed P.T.O., for use with drive-axle trailers on steep slopes. The power-take-off is also extremely simple to operate: the button controlling the clutch (electrohydraulically operated) features modulated activation (to avoid jerking and snatching), whilst the selected speed is indicated by a dedicated liquid crystal display on the digital instrument panel.

Small in stature, but big on comfort

Frutteto[3] models are available with a 28" cab and with 2 platforms, suspended on silentblock mounts, to suit different tyre sizes: both are wide, but distinguished one from another by the height of the fenders, 28" and 24".

Frutteto[3] S models are available with 2 platforms, suspended on silentblock mounts, likewise to suit different tyre sizes: one wide, 28", the other narrow, 20".

The narrow platform can still accommodate 24" tyres, giving the machine a low profile, but with plenty of space inside, increased visibility afforded by the large expanses of window glass, and a more compact cab outline that is gentler on foliage and hanging fruit.

New SDF cab.

Developed by SDF especially for this horsepower segment, the new Frutteto[3] range cabs embody, in terms of comfort, ergonomic advantage and design the best possible specifications currently available.

The “all glass” structure with 4 slender uprights and one-piece windscreen (no centre rail), guarantees perfect all round visibility, as well as maximum width at the waistline, and contributes to a more effective sound insulation and pressurization of the enclosure. The driving position and all the controls are ergonomically designed, with intuitive colour coded functions. The cab roof also has the same streamlined styling as the engine hood, devoid of sharp corner edges, ensuring it will slip easily between hanging branches without damaging fruit and foliage.
A highly efficient air-conditioning unit installed in the headspace ensures a regular and uniform distribution of cool air throughout the cab, delivered from adjustable ports. The two activated carbon filters are easily removed from their side housing, for swift and practical servicing

Frutteto^3 range.
Specialized in making your job easy

Particular attention has been given to minimizing the level of noise perceived by the operator, with the adoption of special window glass, and efficient sound-absorbent materials for the engine compartment. Optional extras include an air suspension seat, and a hi-fi system. In short, everything needed to make life comfortable, while ensuring a correct posture at the controls throughout the working day.

Frutteto³ V. The specialist par excellence

Completing the new Frutteto³ range is a special version of the Frutteto³ S, in this instance identified by the letter "V". Available with cab, or with a 20" platform, the Frutteto³ V is the model with the lowest and narrowest profile of the entire range: the specialist par excellence, a true champion of agility and versatility

Frutteto³ 80 | 90 | 100

Cab	Platform	Tyres: Front Dimension	Front LR	Rear Dimension	Rear LR	Width min/max mm	H at hood mm	H at dashboard mm	H at fenders mm	H at cab roof mm (with or w/o AC)	Ground clearance mm
28"	28" High	280/70R20"	405	380/70R28"	591	1557-1984	1185	1195	1351	2342	257
		300/70R20"	428	420/70R28"	609	1595-2024	1208	1218	1369	2360	295
		280/70R20"	405	16.9R24" 420/85R24"	591	1642-2042	1185	1195	1351	2342	282
		7,50R20"	422	13,6R28 340/85R28	587	1434-1938	1202	1212	1347	2338	289
		9.5 - R20"	436	14.9R28" 380/85R28"	608	1567-2071	1216	1226	1368	2359	303
	24" Low	240/70R16"	332	380/70R20"	483	1494-1834	1112	1122	1173	2234	199
		280/70R16"	358	360/70R24"	516	1443-2012	1138	1148	1206	2267	225
		280/70R16"	358	380/70R24"	538	1478-1988	1138	1148	1228	2289	225
		280/70R18"	383	420/70R24"	563	1618-2018	1163	1173	1253	2314	250
		280/70R18"	383	14.9R24" 380/85R24"	563	1591-1997	1163	1173	1253	2314	250

Data and measurements subject to change depending on make of tyre. *LR = loaded radius (Continental)

Frutteto³ S 80 | 90 | 100

Platform / Cab	Tyres: Front Size	Front LR	Rear Size	Rear LR	Width min/max mm	H at hood mm	H at dashboard mm	H at fenders mm	H at cab roof mm (with or w/o AC)	Ground clearance mm
28" High	280/70R18"	383	380/70R28"	591	1323-1877	1163	1173	1351	2378	285
	280/70R18"	383	420/70R28"	609	1513-1803	1163	1173	1369	2396	285
	280/70R16"	358	420/70R24"	563	1461-1911	1138	1148	1323	2350	260
20" Low	7,5-16"	280	12,4 R28	578	1264-1818	1060	1070	1338	2365	182
	240/70R16"	332	360/70R24"	516	1314-1813	1112	1122	1161	2303	234
	260/70R16"	350	380/70R24"	538	1391-1837	1130	1140	1183	2325	252
	6,50-16"	355	12,4R24	530	1266-1812	1135	1145	1175	2317	257
V 20"	260/70R16"	350	320/70R24	505	1172-1543	1130	1140	1150	2292	235
	240/70R16"	332	380/70R20"	482	1267-1527	1112	1122	1127	2269	235
	280/60-15,5"	325	360/60-24" G	502	1296-1604	1105	1115	1147	2289	228
	6,50-16"	355	11,2R24" 280/85R24 G	501	1115-1515	1135	1145	1146	2288	258
	27X10,5-15"	323	41X14-20" G	465	1284-1484	1103	1113	1110	2252	236

Data and measurements subject to change depending on make of tyre. *LR = loaded radius (Continental)

Frutteto³ range. Tailored to your requirements

TECHNICAL DATA

	Version	FRUTTETO³ 80	FRUTTETO³ 90	FRUTTETO³ 100
		4WD	4WD	4WD
ENGINE		SDF 1000.3 VTI TIER III	SDF 1000.4 VTI TIER III	SDF 1000.4 VTI TIER III
Cylinders/Displacement	no./cm³	3/3000	4/4000	4/4000
Aspiration		Turbo Intercooler	Turbo Intercooler	Turbo Intercooler
Max. homologated power (2000/25/CE)	HP/kW	82/60	85/63	96/71
Nominal engine speed	rpm	2200	2200	2200
Max. torque	Nm	310	345	373
Max. torque engine speed	rpm	1600	1600	1600
Cooling		liquid-oil		
Engine control		electronic		
Air cleaner		dry with safety cartridge and dust ejector		
Silencer underhood		with lateral exhaust / vertical		
Fuel tank capacity	litres	55 with tank forward of engine 40 with additional tank under platform		
DIMENSIONS AND WEIGHTS (with rear tyres)		360/70R24	380/70R24	420/70R24
Max. length without link arms	mm	3186	3338	3363
Width min.- max.	mm	1443-2012	1478-1988	1618-2018
Max. height at safety frame	mm	2228	2380	2405
Height at engine hood	mm	1138	1138	1163
Height at steering wheel	mm	1148	1148	1173
Max. height at cab	mm	2228	2250	2275
Ground clearance	mm	225	225	250
Wheelbase	mm	1990	2120	2120
Front track min.- max.	mm	1165-1442	1165-1442	1165-1516
Rear track min.- max.	mm	1083-1652	1098-1608	1198-1598
Minimum steering radius without braking	mm	3900	4000	4000
Weight with safety frame	kg	2500	2650	2650
Weight with cab	kg	2720	3000	3000

TRANSMISSION		
Gearbox clutch		hydrostatically operated
Mechanical gearbox, 5 synchronised gears 3 gear ranges with underdrive and creeper (min. speed: 0,22 km/h)		30 FWD + 15 REV with Overspeed
Powershift gearbox (3 power gears) 5 synchronised gears, gear ranges with creeper (min. speed: 0,18 km/h)		45 FWD + 45 REV with Overspeed
Max. speed		Overspeed gearbox 50 km/h (for some countries speed limited to 40 km/h for legal purposes, even at economy engine speed)
Shuttle		mechanical, synchronised hydraulic under load with Stop&Go system
Rear differential lock		electro-hydraulically operated
Lubrication		forced with transmission oil cooler
REAR P.T.O.		
Clutch		oil-immersed multi-disc
Speed	rpm rpm	540-540 ECON 540-540 ECON-1000 synchronised P.T.O.
Operation		electro-hydraulically operated, push-button control
FRONT P.T.O.		
Clutch		oil-immersed multi-disc
Speed	rpm	1000
Operation		electro-hydraulically operated, push-button control
BRAKES AND STEERING		
Braking system		all wheel braking, oil-immersed discs on all 4 wheels, hydrostatically operated
Parking brake		independent
Trailer braking		hydraulic braking valve
Hydrostatic steering		independent pump, adjustable steering wheel
Steering angle	4WD	55°

FRONT AXLE		
Drive engagement and differentials		electro-hydraulically operated
Front differential lock		electro-hydraulically operated
Front mudguards		fixed
HYDRAULIC LIFT		
Rear power lift		mechanical electronic
Maximum lifting capacity	kg	3000
Pump delivery	l/min.	54
Hydraulic system with double pump	l/min.	33 + 25
Auxiliary hydraulic control valves	no. ways	6 with flow regulator 4 ventral ways: electro-hydraulically or mechanical operated
3 point linkage (link arms and top link)		fixed hitching balls automatic hitching
RH link arm and stabilisers		mechanical hydraulic
Front lift		original built in maximum lifting capacity 1500 kg quick fit ballast, 250 kg
DRIVING POSITION		
Platform		suspended on silent-block
Safety frame		folding
Cab		original sound-proofed and pressurised, opening windscreen, rear windscreen wiper, 4 work lights, active carbon air filter, external rear-view mirrors
Instruments		digital display
Driver's seat		mechanical adjustment, safety belt pneumatic suspension, safety belt

POWERSHIFT WITH OVERSPEED GEARBOX 45 FWD + 45 REV - SPEEDS IN KM/H AT ENGINE SPEED OF 2200 RPM WITH 420/70 R 24 REAR TYRES

	1 SR	2 SR	3 SR	4 SR	5 SR	1 L	2 L	3 L	4 L	5 L	1 V	2 V	3 V	4 V	5 V
LOW	0,18	0,28	0,40	0,59	0,87	1,27	1,72	2,54	3,75	5,53	7,76	9,43	14,01	20,64	30,48
MEDIUM	0,22	0,32	0,48	0,71	1,05	1,41	2,05	3,05	4,50	6,46	8,05	11,31	16,81	24,77	36,57
HIGH	0,27	0,39	0,58	0,86	1,17	1,71	2,49	3,70	5,45	6,64	9,41	13,71	20,38	30,03	44,33*

The above specifications refer to tractors with all available equipment. For standard equipment and options, refer to the current price list and ask your local dealer for details.

*=FOR SOME COUNTRIES SPEED LIMITED TO 40 KM/H ALSO AT ECONOMY ENGINE SPEED FOR LEGAL PURPOSES
PLEASE NOTE: REVERSE SPEEDS ARE SLIGHTLY LOWER THAN THE CORRESPONDING FORWARD SPEEDS WITH THE 30+15 GEARBOX, REVERSE SPEED ARE SLIGHTLY LOWER THAN THE CORRESPONDING FORWARD SPEEDS WITHOUT UNDERDRIVE.

TECHNICAL DATA

	Version	FRUTTETO³ S 80	FRUTTETO³ S 90		FRUTTETO³ S 100
		4WD	2WD	4WD	4WD
ENGINE		SDF 1000.3 VTI TIER III	SDF 1000.4 VTI TIER III		SDF 1000.4 VTI TIER III
Cylinders/Displacement	no./cm³	3/3000	4/4000		4/4000
Aspiration		Turbo Intercooler	Turbo Intercooler		Turbo Intercooler
Max. homologated power (2000/25/CE)	HP/kW	82/60	85/63		96/71
Nominal engine speed	rpm	2200	2200		2200
Max. torque	Nm	310	345		373
Max. torque engine speed	rpm	1600	1600		1600
Cooling		liquid-oil			
Engine control		electronic			
Air cleaner		dry with safety cartridge and dust ejector			
Silencer underhood		with lateral exhaust / vertical			
Fuel tank capacity	litres	55 with tank forward of engine 40 with additional tank under platform			
DIMENSIONS AND WEIGHTS (with rear tyres)		360/70R24	13.6 R28	380/70R24	420/70R24
Max. length without link arms	mm	3186	3338	3338	3363
Width min.- max.	mm	1314-1813	1391-1837	1391-1837	1461-1911
Max. height at safety frame	mm	2228	2380	2380	2405
Height at engine hood	mm	1110	1163	1130	1138
Height at steering wheel	mm	1122	1173	1140	1148
Max. height at cab	mm	2228	2396	2250	2275
Ground clearance	mm	234	285	252	260
Wheelbase	mm	2027	2157	2157	2157
Front track min.- max.	mm	985-1270	1056-1140	1034-1270	1088-1324
Rear track min.- max.	mm	952-1127	1032-1432	1011-1489	1040-1490
Minimum steering radius without braking	mm	3400	2800	3500	3600
Weight with safety frame	kg	2450	2400	2590	2650
Weight with cab	kg	2600	2560	2740	2800

TRANSMISSION		
Gearbox clutch		hydrostatically operated
Mechanical gearbox, 5 synchronised gears 3 gear ranges with underdrive and creeper (min. speed: 0,22 km/h)		30 FWD + 15 REV with Overspeed
POWERSHIFT gearbox (3 power gears) 5 synchronised gears, gear ranges with creeper (min. speed: 0,18 km/h)		45 FWD + 45 REV with Overspeed
Max. speed		OVERSPEED gearbox 50 km/h (for some countries speed limited to 40 km/h for legal purposes, even at economy engine speed)
Shuttle		mechanical, synchronised hydraulic under load with Stop&Go system
Rear differential lock		electro-hydraulically operated
Lubrication		forced with transmission oil cooler
REAR P.T.O.		
Clutch		oil-immersed multi-disc
Speed	rpm rpm	540-540 ECON 540-540 ECON-1000 synchronised P.T.O.
Operation		electro-hydraulically operated, push-button control
FRONT P.T.O.		
Clutch		oil-immersed multi-disc
Speed	rpm	1000
Operation		electro-hydraulically operated, push-button control
BRAKES AND STEERING		
Braking system		all wheel braking, oil-immersed discs on all 4 wheels, hydrostatically operated
Parking brake		independent
Trailer braking		hydraulic braking valve
Hydrostatic steering		independent pump, adjustable steering wheel
Steering angle	2WD 4WD	75° 60°

FRONT AXLE	
Drive engagement and differentials	electro-hydraulically operated
Front differential lock	electro-hydraulically operated
Front mudguards	fixed
HYDRAULIC LIFT	
Rear power lift	mechanical electronic
Maximum lifting capacity kg	3000
Pump delivery l/min.	54
hydraulic system with double pump l/min.	33 + 25
Auxiliary hydraulic control valves no. ways	6 with flow regulator 4 ventral ways: electro-hydraulically or mechanical operated
3 point linkage (link arms and top link)	fixed hitching balls automatic hitching
RH link arm and stabilisers	mechanical hydraulic
Front lift	original built in maximum lifting capacity 1500 kg quick fit ballast, 250 kg
DRIVING POSITION	
Platform	suspended on silent-block
Safety frame	folding
Cab	original sound-proofed and pressurised, opening windscreen, rear windscreen wiper, 4 work lights, active carbon air filter, external rear-view mirrors
Instruments	digital display
Driver's seat	mechanical adjustment, safety belt pneumatic suspension, safety belt

POWERSHIFT WITH OVERSPEED GEARBOX 45 FWD + 45 REV - SPEEDS IN KM/H AT ENGINE SPEED OF 2200 RPM WITH 420/70 R 24 REAR TYRES

	1 SR	2 SR	3 SR	4 SR	5 SR	1 L	2 L	3 L	4 L	5 L	1 V	2 V	3 V	4 V	5 V
LOW	0,18	0,28	0,40	0,59	0,87	1,27	1,72	2,54	3,75	5,53	7,76	9,43	14,01	20,64	30,48
MEDIUM	0,22	0,32	0,48	0,71	1,05	1,41	2,05	3,05	4,50	6,46	8,05	11,31	16,81	24,77	36,57
HIGH	0,27	0,39	0,58	0,86	1,17	1,71	2,49	3,70	5,45	6,64	9,41	13,71	20,38	30,03	44,33*

*=FOR SOME COUNTRIES SPEED LIMITED TO 42 KM/H ALSO AT ECONOMY ENGINE SPEED FOR LEGAL PURPOSES
PLEASE NOTE: REVERSE SPEEDS ARE SLIGHTLY LOWER THAN THE CORRESPONDING FORWARD SPEEDS WITH THE 30+15 GEARBOX, REVERSE SPEED ARE SLIGHTLY LOWER THAN THE CORRESPONDING FORWARD SPEEDS WITHOUT UNDERDRIVE.

The above specifications refer to tractors with all available equipment. For standard equipment and options, refer to the current price list and ask your local dealer for details.

DEALER CONTACT

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We recommend the use of SDF Lubricants and Coolant

Company with Quality System Certified in compliance with ISO 9001:2000

SAME DEUTZ-FAHR GROUP S.p.A. _ Viale Cassani, 14 _ 24047 _ Treviglio (BG) _ Italy _ Ph: +39 0363 4211 _ www.samedeutz-fahr.com
SAME DEUTZ-FAHR U.K. LTD. _ Barby Lane, Barby, Nr Rugby _ CV23 8TD _ WARWICKSHIRE _ UK _ www.same-tractors.com

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