

# SOLARIS

35 | 45 | 55



**SAME**  
TRADITIONALLY INNOVATIVE



SAME DEUTZ-FAHR



## SMALL only in appearance

The new Solaris range of 35 to 55 HP tractors is perfectly at home with all sorts of work, from open field to specialist applications. Small size, compact design, rounded lines, and a tight turning circle mean that Solaris tractors are ideal in confined spaces like greenhouses and plant nurseries, and the perfect choice

for small farms, intensive crops and even hobby farming.

All Solaris models are also available with a special low platform and 20" tyres, for even greater versatility when working under low, overhanging canopies.

Solaris tractors are extremely stable, pull well even on slopes, and are the ideal

solution for combining compact size with a high level of comfort and unbeatable versatility.

Same's new Solaris tractors are small only in appearance. Their technical specifications and performance are easily on a par with far bigger machines.



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## QUALITY AND COMFORT: two objectives fulfilled to perfection

The Euro III engines powering the Solaris range are all Mitsubishi 4 cylinder, indirect injection, liquid cooled units. Power ratings are 39, 43 and 51 HP\* for the Solaris 35, Solaris 45 and Solaris 55 respectively.

The two higher powered engines are both turbocharged. These engines are beautifully simple in design, feature an

excellent torque curve, and deliver plenty of flexible power with enough torque reserve to overcome unexpected peaks in load. Four cylinders also mean silent running, above average comfort, and extremely low levels of vibration.

The location of the diesel fuel tank behind the engine not only promotes more efficient cooling but permits the

tank to hold a generous 10 gallons. Working hours between refuelling can be extended with the optional 15 litre auxiliary fuel tank.

\* Maximum power ratings to 2000/25/CE.



35

45

55

SPEED



Auxiliary fuel tank



Lateral console



Front power lift and P.T.O.

## SYNCHRO gearbox and shuttle for maximum EFFICIENCY in all conditions

Solaris tractors really can tackle all conditions. Their transmissions are optimised in design and just as robust as those of far bigger machines. All the models in the range have synchro gearboxes with 12 forward gears and 12 reverse gears, and a synchro shuttle for quick and easy manoeuvring. Thanks to a top speed of 30 km/h, the Solaris range even gives you excellent transfer and transport performance. Both differentials have electro-hydraulic locking, and the front axle has a 57° steering angle, giving a turning circle of

just 2600 mm. This guarantees quick and easy manoeuvring in all situations, and provides the Solaris range the sort of agility needed for work in tight spaces. All models in the range also feature hydrostatic steering with a dedicated 15 l/min. pump for effortless steering even at low engine speeds. The rear PTO offers 540, 540 ECON and 1000 rpm speeds and synchro, while the central PTO operates at 2000 rpm. Safety is ensured by powerful and efficient oil-bath disc brakes.



Control console



Shuttle lever and P.T.O. speed shift lever



4WD drive engagement lever



## RELIABILITY



### Two SEPARATE CIRCUITS for steering and implements mean that manoeuvring is always EFFORTLESS

Solaris lets you choose the best implement for any job.

The hydraulic system has two separate circuits, one for the lift and auxiliary controls, and the other dedicated to the hydrostatic steering.

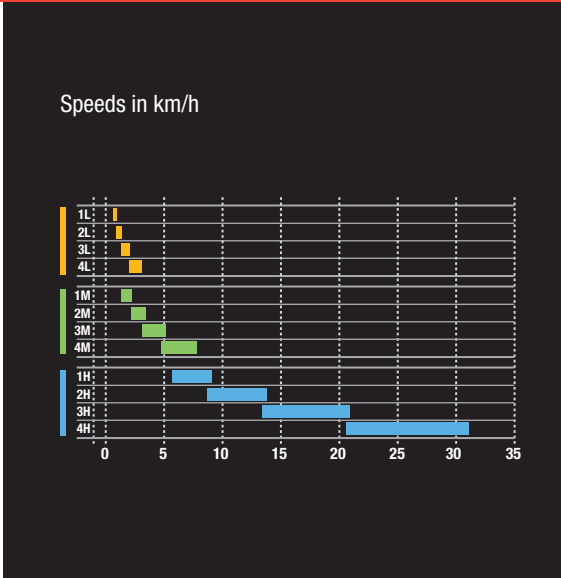
This means that steering is always light, even if you have to lift the implement and manoeuvre between crop rows at the same time.

The rear lift circuit is equipped with a

dedicated 30 l/min pump and 6 way hydraulic control valves to give a lifting capacity of 1200 kg. The lift system provides both position and draft control functions. The front lift, with a maximum lifting capacity of 400 kg and integrated 1000 rpm PTO, extends the range of tasks that can be accomplished by the Solaris, making it a truly multipurpose machine.



# COMFORT



## SMALL only in SIZE, SOLARIS has big tractor COMFORT

Despite their compact size, Solaris tractors are surprisingly comfortable.

The tunnel type platform is mounted on Silent-Blocks to minimise vibrations and noise, and to keep the operator sitting comfortably even after many hours of work.

The Solaris 55, the most powerful model in the range, has a platform that is 4 in longer and wider, to give the operator even

more space and superior comfort.

The driving position is comfortable and ergonomically designed. The seat has a 18 in cushion and the implement and lift control levers are conveniently located to the operator's right, where they are easy to reach. On the high platform version, a convenient non-slip access step makes it easy to get on and off the tractor. Even the look is new, with smoother, more

rounded lines. The new Solaris models all have plunging engine hoods for excellent forward visibility, adding a new dimension of robustness, practicality and ease of use to these great little Same tractors.

The hoods are single piece, and open fully on rear mounted hinges, an important detail that Same has introduced to make routine servicing easier than ever before.



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## TECHNICAL DATA

	Version	SOLARIS 35		SOLARIS 45		SOLARIS 55	
		2WD	4WD	2WD	4WD	2WD	4WD
<b>ENGINE</b>		MITSUBISHI EURO III		MITSUBISHI EURO III		MITSUBISHI EURO III	
Cylinders/Displacement	no./cm <sup>3</sup>	4/1500		4/1500		4/1758	
Aspiration		Natural		Turbo		Turbo	
Max. homologated power (2000/25/CE)	HP/kW	39/28,5		43/31,5		51/37	
Max. homologated power (ECE R24.03)	HP/kW	35/26		41/30		47/34,5	
Nominal engine speed	rpm	3000		3000		3000	
Max. torque	Nm	83		100		122	
Max. torque engine speed	rpm	1900		2100		2000	
Cooling				liquid			
Engine control				mechanical			
Air cleaner				dry with safety cartridge			
Silencer underhood				with lateral exhaust			
Fuel tank capacity	litres			38 (main fuel tank)			
Engine hood				15 (auxiliary fuel tank)			
				single piece, hinged opening			
<b>DIMENSIONS AND WEIGHTS (with rear tyres)</b>		320/70 R 20		360/70 R 24		360/70 R 24	
Max. length without link arms	mm	2950		2980		2980	
Width min.- max.	mm	1220*-1360		1360-1675		1360-1675	
Max. height at safety frame	mm	1955		2020		2020	
Ground clearance	mm	345		390		390	
Wheelbase	mm	1745		1745		1745	
Front track min.- max.	mm	970-1120		1040-1315		1040-1315	
Rear track min.- max.	mm	820-1020		1005-1320		1005-1320	
Minimum steering radius without braking	mm	2600		2600		2600	
Weight with safety frame	kg	1250		1320		1320	

**TRANSMISSION**

Gearbox clutch		mechanically operated
Mechanical gearbox, 4 synchronised gears, 3 gear ranges (min. speed: 0,89 km/h)		12 FWD + 12 REV
Mechanical gearbox, 4 synchronised gears, 4 gear ranges with creeper (min. speed: 0,24 km/h)		16 FWD + 16 REV
Max. speed	km/h	30
Shuttle		mechanical, synchronised
Rear differential lock		electro-hydraulically operated

**REAR P.T.O.**

Clutch		mechanically operated
	rpm	540-1000
Speed	rpm	540-540 ECON synchronised P.T.O.

**VENTRAL P.T.O.**

Clutch		mechanically operated
Speed	rpm	2000

**FRONT P.T.O.**

Clutch		multiple discs in oil bath
Speed	rpm	1000
Operation		electro-hydraulically operated, push-button control

**BRAKES AND STEERING**

Braking system		mechanically operated rear discs in oil bath
Hydrostatic steering		with independent pump
Steering angle		57°

**FRONT AXLE**

Type		portal
Drive engagement		mechanically operated
Front differential lock		electro-hydraulically operated
Front ballast		(4) 25 kg weights, 15 kg weights

**HYDRAULIC LIFT**

Rear power lift		mechanical
Implement control		position and draft control
Maximum lifting capacity	kg	1200
Pump delivery	l/min.	30
Auxiliary hydraulic control valves	no. ways	4/6
Front lift		original integrated maximum lifting capacity 400 kg.

**DRIVING POSITION**

Platform		suspended on silent-block
Safety frame		folding
Gear levers		under steering wheel
Lift control levers		on console to the right of the driving position
Driver's seat		complete with safety belt

## 16 FWD + 16 REV GEARBOX - SPEED IN KM/H AT ENGINE SPEED OF 3000 RPM WITH 360/70 R 24 REAR TYRES

1 SR	2 SR	3 SR	4 SR	1L	2L	3L	1M	4 L	2M	3M	4M	1H	2H	3H	4H
0,24	0,37	0,56	0,84	0,91	1,34	2,08	2,29	3,14	3,47	5,26	7,92	9,26	14,06	21,27	32,05

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.

\*=AVAILABLE IN A NARROW AXLE VERSION WITH 280/70 R 18 REAR TYRES MINIMUM WIDTH: 1165 MM PLEASE NOTE: REVERSE SPEEDS ARE SLIGHTLY HIGHER THAN THE CORRESPONDING FORWARD SPEEDS.

## DEALER CONTACT

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