

SOLARIS: THE GREAT AND SMALL TRACTOR



RANGE 25
35
35 WIND
45 HIGH
45 LOW



SAME

A COMPLETE RANGE

To ensure you find just the right package, the SOLARIS comes in a **wide range** of models with no less than four engine options: three water-cooled, **the SOLARIS 25, 35 and 45**, and one air-cooled, **the SOLARIS 35 WIND**.

SOLARIS: a concrete example of how **advanced big tractor technology** can be incorporated into a machine of compact dimensions without compromising in any way on the quality and variety of applications possible.



SOLARIS: AN INNOVATIVE TECHNOLOGICAL JOURNEY...



SOLARIS machines have **high-tech instrumentation** to make driving simple and safe, and are powered by **engines capable of producing power and performance** while keeping fuel consumption and noise levels appreciably low.

■ **The synchromesh gearbox has 12 forward and 12 reverse speeds**, and shuttle saving precious time on manoeuvres.

■ **Oil-immersed disc brakes** ensure maximum effectiveness and **safety** when the pedal is pressed.

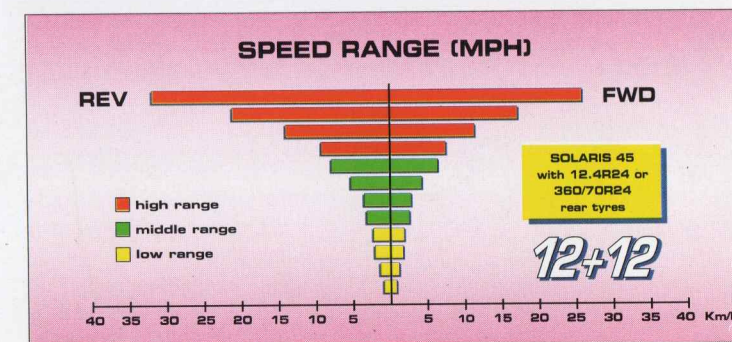
■ **A wide variety of implements and equipment** can be operated from three P.t.o. shafts: **540/1000 rpm at rear, 2000 rpm at mid and front**. Live P.t.o. is standard on all models.

■ With provision for **auxiliary hydraulic pressure ports (4-way rear + 2-way front + 2-way mid)**, the great versatility of the SOLARIS is demonstrated still further.

■ An **electrohydraulically operated front differential lock** ensures maximum grip with comfortable control.

■ **A choice of tyres** is also available: **agricultural type for cultivation, or grassland for parks and gardens**, where a heavy tread would damage lawns and greens.

■ SOLARIS. Nothing left out.



...TOWARDS HIGHER WORK SPECIALIZATION

Agriculture is becoming more and more specialized at all product levels.

A **singularly compact tractor** like the **SOLARIS** fits perfectly into this type of scenario, thanks to its **exceptional adaptability**.

This is especially true where smallness becomes a precise operating requirement, as in greenhouses and tunnels: no problem whatever for the **SOLARIS**, with its **folding roll bar**.





COMPACTNESS

Size is all-important in the nursery too, and when working on the upkeep of grounds and gardens. With its **wheel-hugging fenders, rounded hood and streamlined cab** (optional in some markets), the SOLARIS is able to move around in confined spaces **nimbly and safely**, without hitting or damaging the plants.



MANOEUVRABILITY

High ground clearance is a feature of all SOLARIS models, thanks to the special design of the front axle.

Tight situations may call for **inch-perfect steering and pedal control**, but this will be no hardship for the driver.

With **power steering as standard, 50° steering angle and a faultlessly ergonomic driving position**, the SOLARIS offers hitherto unparalleled manoeuvrability and control.

The gearshift and range levers are positioned beneath the steering wheel, and will respond even to the most delicate touch.



SOLARIS	25	35	45
STEERING RADIUS	2600	2800	2900
WIDTH	1085	1240	1265
LENGTH	2625	2860	2930

...EXCEPTIONAL VERSATILITY

IN AGRICULTURE

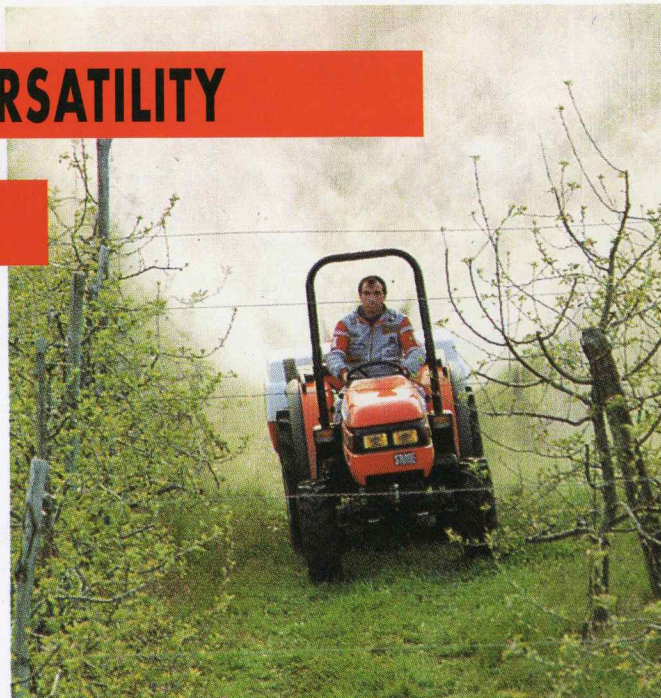
Comprehensive high **technology** and a **multitude of implement options** combine to establish the SOLARIS as a super-effective machine for cultivation purposes, whether on hillside or terraced farmland.

SOLARIS machines are ideally suited for use even with low energy equipment such as the latest generation mist blowers, which no longer require large tractors with big horsepower.

So when it comes to functions and types of use, **the supreme versatility of the SOLARIS** is plain to see: a thoroughly dependable machine fully at home in the new agriculture, which goes about its business **wasting nothing**, and **consuming the absolute minimum of resources necessary**.

The SOLARIS 45, for example, is truly a big tractor to all intents and purposes. Certain key specifications will speak for themselves:

- **1700 mm wheelbase**, as opposed to 1630 mm for the SOLARIS 35 and 1540 mm for the SOLARIS 25;
- **rated horsepower** sufficient to drive a broad selection of implements;
- a choice of **two platform versions, 45 High and 45 Low**, guaranteeing traction or stability as the top priority, whichever is more important.





THE ULTIMATE URBAN AND RURAL SERVICE VEHICLE

The **versatile** SOLARIS is a unique asset not least in those environments such as small town streets and squares, where access and manoeuvring space will always be at a premium for any machine engaged in **digging, removing debris, tending or reorganizing greenery** clearing snow ect.

A SOLARIS can be put to many different uses over the course of the year, and will soon pay its way with **significant operating economies** in all applications.

ON THE GRASS.

PUBLIC

AND PRIVATE

Invaluable for the **preparation and upkeep** of **public parks and private gardens**, together with sports facilities such as football pitches, horseracing and golf courses, the SOLARIS is designed to operate with an extensive range of dedicated implements.

For grass in particular, a **mid-mounted mower** can be fitted in conjunction with a large capacity rear collector.

The **abundant power of the SOLARIS** can be exploited profitably in driving implements capable of high work rates, with the **minimum of compaction**, thanks to the machine's excellent power-to-weight ratio (27.3 kg/HP for the SOLARIS 45).



THE ALL-PURPOSE SOLARIS

A great diversity of capabilities
on different terrains and for different uses.
Top levels of performance with economy
and quality of the highest order.



ONE-FURROW PLOUGH, mechanical or hydraulic.
Working depth 300 mm.



TRAILER with 3-way hydraulic tilt.
Farm version 2500 x 1000 mm.
Garden version 2300 x 1200 mm.



MIST BLOWER.
Trailed (capacity 1000 litres).
Hitched (capacity 400 litres).



SHREDDER.
Working width 1500 mm.



3-BLADE MOWER.
Working width 1800 mm.



3-BLADE MOWER.
(working width 1500 mm).
Cutting height 12 to 90 mm.

COLLECTION BIN.
Capacity 700 litres,
mechanical or hydraulic
dump.



AERATOR.
Working width 1500 mm.



BACKHOE.
Working height 2300 mm.
Working depth 1800 mm.



SWEeper AND BIN.
Working width 1300 mm.

CONSPICUOUS COMFORT

Albeit of **modest dimensions**, the SOLARIS meets every expectation in terms of comfort, and of looks too, thanks to the **compact design** of the body.

The driving position is equipped with the very latest in **instrumentation**, and there are even two different covered versions:

- with a **collapsible soft top**, easily fitted to the standard roll-bar together with a removable windscreen and wiper;

- with a **fixed sound-insulated cab**, which includes **heating and ventilation system**, rear view mirror, windscreen wiper, and an additional interior trim kit further enhancing the heat and sound insulation of the enclosure.

(Optional in Same Markets)



SOLARIS 25-35-35 WIND-45

TECHNICAL DATA	SOLARIS 25	SOLARIS 35	SOLARIS 35 WIND	SOLARIS 45
ENGINE				
Make	MITSUBISHI	MITSUBISHI	S+L+H	MITSUBISHI
Type	K3F-D	K4F-D	500.3 A	K4F-DT
Cylinders/displacement (cm ³)	3/1118	4/1490	3/1566	4 turbo/1490
Maximum rated power (kW/HP/rpm)	18,5/25/3000	25,5/35/3000	25,5/35/3000	31/42/3000
Cooling	water	water	air	water
In-line injection pump. Direct injection	●	●	single cylinder	●
Exhaust silencer under hood, lateral tail pipe	●	●	●	●
Two stage air cleaner, dry element	●	●	●	●
Fuel tank capacity litres	29	29	29	29
TRANSMISSION				
Synchromesh gearbow: 12 FWD + 12 REV	●	●	●	●
Shuttle (synchromesh on 45 HP)	●	●	●	●
Independent P.t.o. clutch	●	●	●	●
Rear P.t.o. (540-1000 rpm)	●	●	●	●
Live P.t.o.	●	●	●	●
Front P.t.o. (2000 rpm)	○	○	○	○
Mid P.t.o. (2000 rpm)	○	○	○	○
BRAKES AND STEERING				
Oil-immersed disc brakes, mechanical control	●	●	●	●
Hydrostatic power steering with load sensing and cylinder incorporated into axle	●	●	●	●
FRONT AXLE				
High ground clearance straddle type structure	●	●	●	●
50° steering angle	●	●	●	●
Electrohydraulically operated front differential lock	○	○	○	○
HYDRAULIC LIFT SYSTEM				
Draft and position control	●	●	●	●
Max lifting capacity (kg)	1200	1200	1200	1200
Rated flow of pump (std) (l/min)	14	14	14	14
Auxiliary spool valves (std) (n° ways)	1	1	1	1
Auxiliary hydraulic system (max 28 l/min) + 4-way auxiliary spool valves with 8 selectable quick couplers	-	○	○	○
Front lift: capacity 400 kg max	○	○	○	○
DRIVING POSITION				
Easily removable platform	●	●	●	●
Pendant pedals, shift levers below steering wheel	●	●	●	●

TECHNICAL DATA	SOLARIS 25	SOLARIS 35	SOLARIS 35 WIND	SOLARIS 45
Folding roll-bar	●	●	●	●
Collapsible soft top; removable windscreen and wiper	○	○	○	○
Sound insulated cab mounted on silent-blocks, with heating and ventilation, rear view mirror, provision for beacon	○	○	-	○
Cab interior trim kit	○	○	-	○
TYRES				
6.50/80-12 front 250/80-18 rear	●	-	-	-
7.00-12 front 11.2 R 20 rear	○	○	○	-
7.00-12 front 320/70R20 rear	-	●	●	○*
210/80R16 front 11.2 R 24 rear	-	○	○	-
7.50-16 front 360/70R24 rear	-	-	-	●
7.50-16 front 12.4 R 24 rear	-	-	-	○
23x8.50-12 front 33x12.50-15 rear (GARDEN)	○	-	-	-
27x8.50-15 front 38x14.00-20 rear (GARDEN)	-	○	○	-
31x13.50-15 front 44x18.00-20 rear (GARDEN)	-	-	-	○
Rear fender extensions	●	●	●	●
3 x front weight (60 kg)	○	○	○	○
DIMENSIONS AND WEIGHTS with rear tyres:				
	250/80-18	320/70R20		360/70R24
Maximum length with links (mm)	2690	2960		3030
Width min (mm)	1120	1240		1255
Width max (mm)	1280	1340		1655
Overall height at steering wheel (mm)	1225	1240		1300
at seat (mm)	770	830		900
at hood (mm)	1130	1145		1200
Ground clearance (mm)	290	345		380
Wheelbase (mm)	1540	1630		1700
Front track - min (mm)	835	970		995
Front track - max (mm)	1000	1190		1230
Rear track - min (mm)	845	920		905
Rear track - max (mm)	1085	1020		1305
Minimum turning radius w/o brakes (mm)	2600	2800		2900
Weight including roll-bar (kg)	970	1030		1150
MAXIMUM GROUND SPEEDS				
With tyre size (mph)	250/80-18	11.2R20 320/70R20		12.4R24 360/70R24
FWD/REV	13.02/14.84	14.94/17.04		16.02/19.79

* LOW PLATFORM VERSION (45 HP): height dimensions and speeds same as 35 HP.

SPECIALISED LUBRIFICATION

Akros Turbo
MOTOR OIL



SAME
FURTHER AHEAD

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