

LASER 2540



THE SELF PROPELLED CARRIER

CHASSIS

- AXAIR pneumatic suspension, each axle is equipped with hydraulic chock absorbers. Outstanding suspension regardless of field conditions and forward speed. Superb stability of the boom and excellent in cab comfort for the operator
- 2 wheel steering on the front axle
 - 270/95R38 front wheels (270/95R48 front wheels on heavy duty export transmission option)
 - 270/95R48 rear wheels
 - 3,84m wheel base
 - Smaller wheels on the front axle enable sharp turning radius

A self propelled sprayer suitable for all crops and fields :

- Mechanical track adjustment by sliding each ½ axle: from 1,80m to 2,25m
- 1,05m standard chassis clearance (may vary according to tyres used)

Front axle	Rear axle		Track
270/95R38	270/95R48	Standard	Minimum track 1,80m
320/85R38	300/95R46	Optional	
340/85R36	340/85R48	Optional	
420/85R30	420/83R38	Optional	
460/85R30	460/85R38	Optional	
460/85R30	520/85R38	Optional	Minium track 2m

Options :

- Mechanical track adjustment from 2m to 2,70m
- 1,25m - 1,40m - 1,60m clearance
- 4 wheel steering with electronic control: 2WS, 4WS, crab steer and slope correction steering of the rear axle with automatic realignment
- Heavy duty transmission with 4 equal wheels, 270/95R48 and reinforced wheel motors on the front axle

ENGINE AND TRANSMISSION - 40 km/h

- DEUTZ engine, 175 hp (129 kW) – Tier III b standards
- Liquid cooled, turbocharged with intercooler
- 310 L fuel tank for long spraying days without refuelling
- Hydrostatic transmission on four wheels (4WD)
- Rexroth hydrostatic pump, 125cm³ displacement
- High speed rear wheel motors with planetary final drives
- Slow speed front wheel motors with radial piston technology (or high speed wheel motors with planetary final drives on optional heavy duty transmission)
- Integrated multi-discs brakes. Dynamic braking circuit, hydrostatic and static braking on all wheels

A new transmission architecture combining power together with great flexibility. Joystick control as well as automotive drive modes. Electronic control for smooth and accurate control of the forward speed..

- 3 speed range available on-the-go: 0-16 km/h, 0-19 km/h and 0-40 km/h.
- Differential locking valve on front and rear axles for ultimate power transfer to the wheels regardless of field conditions and slopes
- Maintenance: easy access to all components :
 - Cooling radiators and heat exchangers grouped in the front grid
 - Diesel fuel filters and water separators behind the front grid
 - Air and oil filters easily accessible from the engine bonnet or the side of the machine



Mechanical track adjustment



Hydrostatic transmission



Easy maintenance





CAB

Centrally mounted, the cab offers a panoramic view not only forward and on both sides, but also enables to see the boom. The cab is pressurised and is equipped with active carbon filters. It is also mounted at a safe distance from the boom... to protected the operator from hazardous chemical contamination.

Optimum operating comfort:

- A/C with climate control
- Low noise level
- Tinted glass
- Radio with MP3 and Bluetooth hands free phone connection
- Electric mirror with defrost system
- Adjustable steering column, air seat
- Ergonomic RH arm rest integrating all instruments
- Single spraying console connected to the joystick
- Storage refrigerated compartment
- 8 working beams



Cab with ergonomic armrest



SPRAYING SYSTEM

The tanks and spraying circuit comply with the strongest safety norms. High density roto-moulded polyethylene for maximum strength and easy rinsing.

TANKS

Main tank

- 2500 L nominal capacity (+5%)
- 2 rotating tank washing nozzles LAV'TON for thorough rinsing

In case of tank overflowing, a built in channel diverts the liquid away from the operator

- Dry sight gauge
- Full tank level sensor with warning buzzer
- Total tank drain by mean of drain valve

Rinse tank

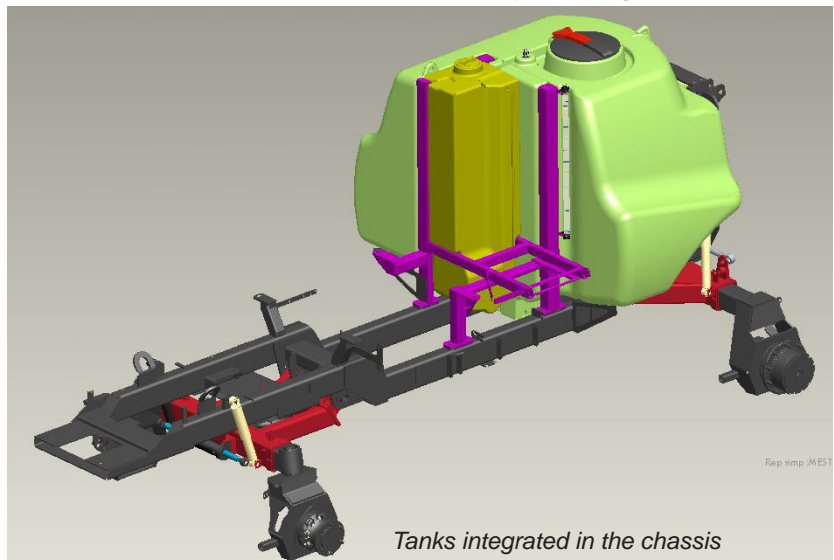
- 260L clean water: large rinsing capacity to clean all circuits and accessories

Hand wash tank

- 15L capacity situated near the operating zone



User friendly operating



Tanks integrated in the chassis

OPERATION

- User friendly operating by mean of two centralized valves
- Induction hopper with can wash, mounted on fold away parallelogram.
- Control box to turn spraying pump On and Off, engine throttle, emergency engine stop

Functions available: filling via suction hose, delivery return to bowser (optional), chemical induction with fresh water or from the tank, spraying, rinsing, induction hopper, boom rinsing, tank rinsing,...





PUMP AND FILTRATION

Piston diaphragm pump to ensure stable application rate at a wide range of spraying pressure and engine rpm.

- PM 500 piston diaphragm pump – 240 L/min – 15 bars (with 24/12 and 28/15 m booms) PM 700 - 290 l/min - 15 bars (with \geq 28/16 m booms). Pump mounted on the back of the machine
- Hydraulic pump drive, 540 rpm
- Large dual scale pressure gauge
- 365 and 594 microns suction interchangeable filter with non return valve
- 2 pressure filters 365 microns

Options:

- Electronic tank gauge
- TecFlow (Anti-overfilling system)
- NovaFlow (Automatic filling system)
- Boom rinsing with by-pass return to tank
- Spirovit (chemical suction probe)
- Autonet (Sequential dilution system)

FLOW REGULATION

NOVATOP

A single console integrating application rate control, hydraulic boom functions, and plot management program. Large LCD colour display : plot, volume/ha, application rate, on the go dosage adjustment, forward speed, etc... Memory to log data of 20 different plots: volume/ha, distance, area, volume sprayed.

Multi ergonomic joystick: all functions within easy reach, sharp and accurate control from finger tips.

NOVATOP' BENEFITS: DGPS READY, YOUR GATE TOWARDS PRECISION AGRICULTURE WITH GPS ALL IN ONE BY TECNOMA

- Guidance
- Field mapping
- Application rate management
- Automatic steering
- Automatic boom section control



Premium equipment for demanding spraying jobs

BOOMS

Boom	Material	Spraying width	ALBATROSS suspension	Sections	Tilt control	Variable geometry	Partial fold	Transport width
LVS	Steel	24/12	Standard	4	Standard	Standard	Standard	2,55 m
		28/15		7				
		28/16		8				
		30/16		8				
LVX	Aluminium	28/16		7				
		30/16		8				



Induction hopper operating zone with multi way valves and TECFLOW (optional)



NOVATOP console



HLE, LVS or LVX booms mounted on parallelogram

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