PLOEGER

APPLICATOR

AT4103 LNMS DNMS LFNMS DFNMS

FERTILISING WITH OPTIMUM QUALITY

A FRONT WHEEL

Hydraulically driven front wheel with brakes, with standard Michelin 1050 tyre. **With short turning radius and adjustable tractive power.** The work lights turn together with the machine.

B DIESEL ENGINE

Optimum tuning between the CVT transmission and diesel engine **minimises fuel consumption.**

C COOLING

Four cooling packages fitted next to each other to cool the diesel engine, intercooler, gear box and the hydraulic system with reversible fan. **Easy access for servicing.**

D SERVICE CENTRE

All control functions and filler openings have been arranged together at one place near the entry to the machine.

E PUMP GEARBOX

The pump gearbox with four attachment options is mounted between the diesel engine and the gear box. This means that **the hydraulic capacity does not go through the gear box.**

F GEAR BOX

The stepless CVT transmission (ZF Eccom 5.0) has a speed range of 0 to 42 km/h. A push button is used to switch between the different speed ranges. The driver can control **the driving speed using the foot pedal or the joystick**.

G CHASSIS

The chassis consists of a single unit made from cut and bent sheets which are then welded together in a tube assembly. All mounting holes are lasered in the sheet immediately. The chassis requires no further welding, because the add-on parts for the various superstructures can be fitted on the same chassis.

H DRIVING CAB

The operator enjoys every comfort in the spacious and luxurious Claas Vista 2 driving cab. The innovative combination of hydraulic and pneumatic suspension creates **an extremely pleasant driving experience.** Operation is simple and within reach. The pilot screen provide an overview of the essential information at a single glance. The air intake and exhaust are integrated in the driving cab pillar to ensure **optimum view of the work.**

I OPERATION

Get in and drive off. That is how the operation was designed. A series of preset values can be selected on the intuitive pilot screen. There is also **a convenient selector wheel** with which ten functions can be adjusted simply. Examples are switching ECO mode on and off, cruise control, maximum speed, the tractive power setting of the front wheel and a number of functions specific to the superstructure. While working in the field, the operator can operate all functions using the switches and buttons on the well-organised dashboard.

J MECHANICALLY DRIVEN REAR AXLE

Subject to the superstructure, a mechanically driven rear axle is fitted which is suitable for large torque or load-bearing capacity. The axle has disc or drum brakes. The machine is supplied as standard with Michelin 1050 tyres. The outside width varies between 3 metres (approved in Germany) and 3.35 metres maximum.

AT4103 LNMS

POLYESTER RESERVOIR

A lightweight but sturdy design, **with integrated slosh baffles and laminated piping.** The reservoir is fitted slightly off-centre for optimum weight distribution and integration of the suction arm. The level of the reservoir can be read on the pilot screen.

SUCTION ARM

An 8” suction arm is fitted by default next to the driving cab, with a reach of 160 degrees. The suction arm can be **operated easily with the joystick** and can load between 2.75 metres deep and 4.5 metres high. When the valve is closed, the suction arm is sucked empty.

Option: ‘Superload’ – a centrifugal pump with bypass – with 8” or 10” suction pipe. The design of the suction arm allows the operator to maintain **excellent view**, also in the transport position.

LINKAGE

Heavy-duty three-point linkage with CAT3 dimensions and CAT4 link pins. Walterscheid toplink, link arms and link ends with stabiliser function. There is also an integrated trailer hitch.

The linkage can be used lifting, pushing, floating and rigidly. A control console allows operation of the linkage on either side of the machine.

The activation moment of the distributor, the pump and the coulter valves can be set on the pilot screen, depending on the linkage height.

PUMP AND CUTTER

The Borger pump is fitted at an angle of 45 degrees to minimise the number of bends in the piping. The piping between the pump and the cutter is 10”. The Borger pump has a capacity of 6 m^3 per minute. The pump capacity can optionally be extended to 9 m^3 per minute. **Loading and unloading are done with one press of a button.** The pump speed can be adjusted manually during loading.

The Vogelsang RotaCut cutter has **a large collector for stones**. The cutter has a large door for maintenance and inspection. By default the piping has **hydraulically operated knife gate valves**.

OPERATION

The reservoir can be loaded or unloaded with one press of a button. The machine adjusts itself, according to **the previously loaded fertilisers**. While working in the field, the operator can operate all functions using the switches and buttons on the well-organised dashboard.

AT4103 DNMS

The AT4103 DNMS has a **Tebbe spreader superstructure with a wide bin** (internal width 2.56 metres). The wear-resistant bin and wear parts are made from Hardox steel. The metering valve height can be adjusted hydraulically. The compost is transported by the Rübig bottom conveyor belt to the two horizontal beaters and two metering discs with a diameter of 1.20 metres. The speed of the separately driven beaters and metering discs can be regulated from 300 to 800 rpm.
The speeds of the beaters and the metering discs can optionally be regulated independently by means of a direct hydraulic drive. **The metering quantity can be controlled from 2 tonne/hectare and a spreading width up to a maximum 18 metres.**

WEIGHING SYSTEM

The spreader superstructure is equipped by default with a weighing system. The weighing system has four weighing units, ensuring **continual feedback of the current dose** based on the weighing system. The operator can manually correct the dose per hectare during spreading.

AVAILABLE FROM 2018

AT5105 DNMS

- Compost spreader
- Large capacity Tebbe spreader superstructure
- Five drive and steering wheels
- Mechanically driven tandem
- Engine capacity up to maximum 550 hp

AT3103 LFNMS

- Liquid fertiliser spreader
- 8,000-litre (AT3103) or 12,000-litre (AT4103) stainless steel reservoir superstructure
- Boom spray 18 or 21 metres
- Vinasse and other liquid fertiliser
- Dosage between 500 and 10,000 litres per hectare

All information provided is subject to errors and changes without notice.		AT3103	AT4103	AT5105
Engine		EU Stage 4 diesel engine with AdBlue®		
	Type	Scania DC09 with engine brake		
	Output	400 hp - 294 kW at 1.500 rpm		
	Capacity	9,3 litre		
	Cylinders	5 in-line		
	Torque	max. 1.830 Nm		
	Alternator	100 Ampère		
	Compressor	Compressor with single air dryer, including a 40 litre air tank, and air coupling for air hose. Capacity 750 litre/min at 1.500 rpm		
	Cooling	Liquid cooling system for engine, transmission, hydraulic system and intercoolers with reversible fan		
Transmission		ZF ECCOM 5.0 CVT transmission, continuously variable from 0 to 40 km/u, automatic range shifting, no need to stop to shift gears for speed range		
Tires		All wheel drive		
	Front	Michelin 1050/50 R32		
	Rear	Michelin 1050/50 R32		
	Outer width	3,100 mm		
	Wheel base			
Drive train	**Front axle**	Hydraulically driven with inside brakes		
	Rear axle	Mechanically driven with disk or drum brakes and separate parking brakes		
		Kessler D91 axle, with planetary end reduction		
Steering		Front wheel steering 70 degrees		Front wheel steering 70 degrees and rear wheels powered steering
Speed		max. 42 km/h		
Tank capacity	**Fuel**	650 litre		
	Hydraulic Oil	200 litre		
	AdBlue®	60 litre		
Speed		max. 42 km/h		
Cabin	**Position**	mid	front	front
		Claas Vista 2 cabin with radio, air conditioning, passenger seat, on-board pilot screen (touchscreen) and camera system. 4-point suspended cabin, with hydraulic suspension on the front and pneumatic suspension on the rear		
Working lights		Halogen		
LNMS		Liquid Nutrient Management System		
	Tank	N/A	Polyester tank with integrated tubes, level indicator and mix function	
	Loading capacity		16 m³	21 or 25 m³
	Pump		Borger 1036 industrial manure pump, 600 rpm, 6.000 litre/min with 6" valve for unloading the tank bypassing the pump.	
	Cutter		Vogelsang RotaCut 10.000 manure cutter, horizontal mounted on the suction side of the pump	
	Pipework		10" galvanised pipework, with minimal amount of bends for optimal suction capacity	
	Suction arm		8" suction arm, able to load 2,75 meter deep and 4,5 meter high, with a 160 degrees reach	
LFNMS		Liquid Fertilizer Nutrient Management System		
	Tank	Stainless steel tank and pipework		N/A
	Loading capacity	8 m³	12 m³	
	Pump	Borger pump with 4 m³/min loading capacity		
	Boom width	18 - 21 meters		
	Spraying capacity	1,000 - 10,000 litres / hectare		
DNMS		Dry Nutrient Management System		
	Box	N/A	Heavy duty Tebbe spreader box	
	Loading capacity		16 tons	25 tons
	Spreading width		18 metres	
	Spreading capacity		min. 2 tons / hectare	
DFNMS		Dry Fertilizer Nutrient Managment System		
	Box	Bredal	New Leader	Available in 2018
	Loading capacity	12 tons	12 tons	
	Spreading width	max. 36 meters	N/A	
Dimensions		Dimensions may vary depending on model and type		
	Length	9,500 mm		11,750 mm
	Width	3,100 mm (optional 3,000 mm or 3,350 mm)		
	Height	3,800 mm		