



ZA-M 1001 Special

New ZA-M 01 spreader with Safety-Set

AMAZONE presents a completely new range of ZA-M twin disc fertiliser spreaders (hopper capacities of between 1000 and 3000 litres) at AGRITECHNICA 2009. A salient external feature of the new series is Safety-Set, the integrated safety package. The Safety-Set package is appealing due to its modern design and consists of an integrated lighting system, warning signs and guard rail.

The integration of the lighting system for the new ZA-M spreader with Safety-Set into the cladding maximises protection against physical damage. This improves safety in road traffic; the same applies for the large-area warning signs that emphasise the spreader. Optional mudguards ensure increased application safety in practice as they guard the spreading system to prevent contamination by dirt from the road. The ladder, which is also available as an option and can be integrated in the spreader, improves safety and accessibility when carrying out filling, checking and cleaning work.

All spreaders are equipped with the AMAZONE Soft Ballistic System (SBS). With this system,

the interaction of agitator, shutter system and spreading discs has been developed further and fully harmonised to ensure that fertiliser granules are not damaged. Only undamaged granules can be distributed with 100% precision over the entire working width and delivered at the plant.

The new series comprises of the following models; ZA-M 1001 Special, ZA-M 1201, ZA-M 1501 plus the ZA-M 1501 Profis with weighing system. All spreaders can be equipped with state-of-the-art electronics and hydraulics packages.

ZA-M 1001 Special – The compact size

For small to medium-sized farms with high expectations in terms of road traffic, working and spreading safety.

A 500 litre extension can be fitted to the ZA-M 1001 Special thus increasing its hopper capacity up to 1500 litres. Thanks to the tried-and-tested Omnia-Set spreading discs, the working width of the ZA-M 1001 Special is between 10 and 36 m. In tandem with the affordable

AMADOS⁺ computer, the ZA-M Special can control the spread rate in relation to forward speed. Control by the operator is made easier by the +/- adjustment feature and a calibration programme that automatically determines the rate setting.



ZA-M 1001

Technical data:

ZA-M 1001 Special

- Working width: 10 m to 36 m
- Electronics: upgradeable with Control package
- Hopper capacity: 1000 l extendable up to 1500 l (up to 1800 kg payload)
- Extension: with 1 x S 500

ZA-M 1201 and ZA-M 1501 – The flexible sizes

For medium-sized to larger farms with high expectations in terms of road traffic, working and spreading safety.

The frame of the ZA-M 1201 and 1501 spreaders is now stronger still which means hopper capacities can be upgraded to 2700 or 3000 litres using a combination of slim and wide extensions. A working widths of these spreaders is also possible between 10 and 36 m, and they can be equipped as required with either the AMADOS⁺ or universal AMATRON⁺ terminals.

The AMATRON⁺ on-board computer is equipped with a large clearly laid out display with graphic user interface. This terminal enables the specified spread rate (kg/ha), Limiter related rate control and online weighing to be controlled fully automatically.



ZA-M 1501

Technical data:

ZA-M 1201

- Working width: 10 m to 36 m
- Electronics: upgradeable with Control or Tronic package
- Hopper capacity: 1200 l extendable up to 2700 l (up to 3100 kg payload)
- Extension: with 1 x S 500 or with 2 x S 500 or with 1 x L 1000 or with S 500 + L 1000

ZA-M 1501

- Working width: 10 m to 36 m
- Electronics: upgradeable with Control or Tronic package
- Hopper capacity: 1500 l extendable up to 3000 l (up to 3100 kg payload)
- Extension: with 1 x S 500 or with 2 x S 500 or with 1 x L 1000 or with S 500 + L 1000

ZA-M 2201, 2501, 2701 and 3001 with L 1000 extension fully assembled ex works

The large filling width of the L extension (2.75 m) ensures sufficient safety when loading with wide buckets. The large volume means

that it can hold the contents of several Big-Bags. Fully assembled ex works, simply attach, fill, drive off and start spreading!



ZA-M 3001

Technical data:

ZA-M 2201 and ZA-M 2501

- Working width: 10 m to 36 m
- Hopper capacity: 2200 l to 2500 l

ZA-M 2701 and ZA-M 3001

- Working width: 10 m to 36 m
- Hopper capacity: 2700 l to 3000 l

ZA-M Profis and ZA-M Ultra Profis weigh-cell spreaders with tilt sensor system for extremely hilly terrain

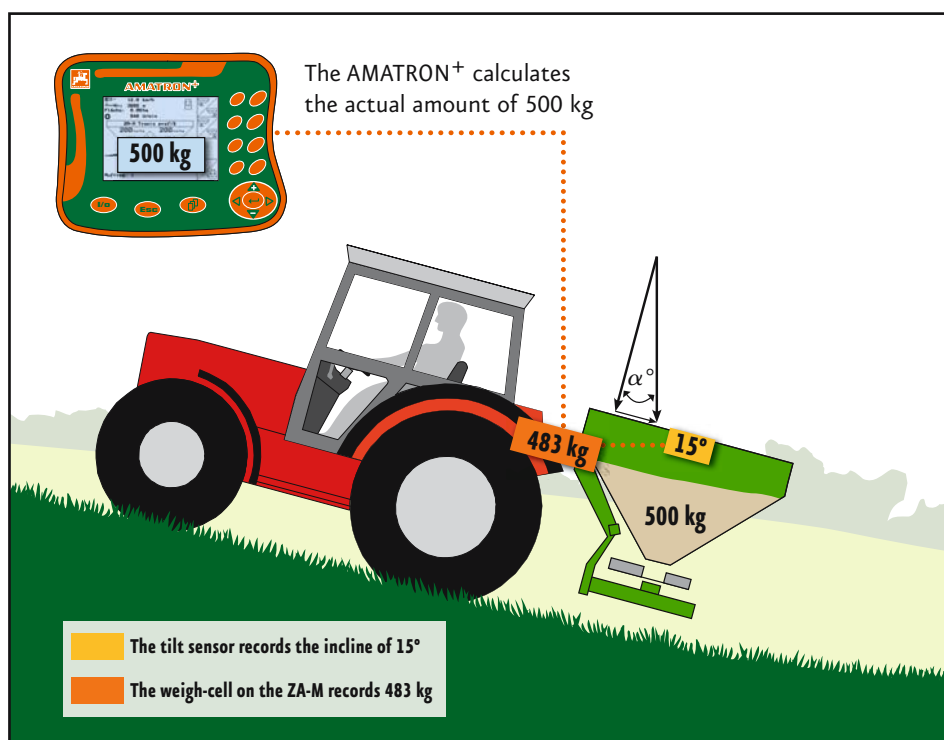
The new combination of a tilt sensor system and weigh-cell algorithms increases the precision and effectiveness of the ZA-M Profis and ZA-M Ultra Profis weigh-cell spreaders.

The Profis weighing system offers controlled comfort and more reliability. With a high level of measurement accuracy, the weigh cell determines the different flow properties of the fertiliser on-line and automatically compares the quantity actually spread with the specified quantity. At the same time, any possible effects

of changes in the centre of gravity while moving are factored into the measurements with the help of an innovative tilt sensor system: a twin-axle tilt sensor which records the forward, backward, left and right tilt, and corrects measurement errors that could occur while driving up or downhill or along slopes.

In combination with intelligent weigh-cell algorithms, deviations in the flow behaviour of heterogeneous mineral fertilisers are easier to detect and the spreader automatically adjusts itself via the electric metering shutters.

For the field-based nutrient balance application the quantity spread is documented accurately and can be recorded via the serial interface (ASD).



Benefits of ZA-M Profis

- No calibration required. Enter spread rate and drive off! It couldn't be simpler.
- Robust frame construction with integrated weigh cell for maximum payload of 3100 kg
- Online weighing technology in parallelogram-guided frame – advantageous for the lowest loading of the weighing cell
- No lateral loading of weighing cell when working on a slope, as the hopper, frame and spreader form an integrated unit
- Convenience and reliability due to simple adjustment of spread rate and working width
- Integrated serial interface for combination with a GPS terminal or N-sensors

ZA-M Profis Hydro

The ZA-M Profis Hydro and ZA-M Ultra Profis Hydro weighing spreaders with hydraulic spreading disc drive operate entirely independently of engine speed and travel speed. The spreading disc and agitator shaft speeds are electro-hydraulically regulated and monitored. Modern tractors with convenient hydraulics management systems can always be driven in the optimum speed range and therefore save fuel when in operation. The main benefits of this drive system are evident when using the variable working width control at the field edge and when spreading in wedges. A pre-programmed 6-section part width section control prevents unnecessary over or under-fertilisation.



ZA-M 1501 Profis up to 3100 kg payload

Technical data:

ZA-M Profis with weighing system

- Working width: 10 m to 36 m
- Electronics: standard with weighing equipment and Tronic package with AMATRON⁺, optional: tilt sensor system for extremely hilly terrain, optional Comfort package and hydraulic drive:
ZA-M Profis Hydro: GPS-Switch ready
- Hopper capacity: 1500 l extendable up to 3000 l (up to 3100 kg payload)
- Extension: with 1 x S 500 or with 2 x S 500 or
with 1 x L 1000 or with S 500 + L 1000



Boundary and side spreading with Limiter

The Limiter is a convenient boundary or side spreading device that can be fitted to all spreaders. It is swung into the spread fan via a hydraulic tractor valve which means the driver does not have to dismount from the tractor. Additionally, if the AMADOS⁺ or AMATRON⁺ terminals are used simultaneously, a half-side reduction in the quantity of fertiliser applied occurs automatically when the Limiter is swung down.



ZA-M and GPS-Switch: the fully automatic fertiliser spreader

Precise position shut-off is possible (switching on and off, part width section control) on the headland, at the field edge or when negotiating obstacles using this new on-board computer system in conjunction with a GPS receiver. The on/off operation is carried out automatically which noticeably reduces the driver's workload and significantly improves the quality of work. In addition to this the

crop benefits from smaller overlaps which also lead to savings in input costs. This is particularly valuable with large working widths and irregular field shapes. The GPS-Switch on-board computer is optionally available in conjunction with the AMATRON⁺ operator control terminal for all fertiliser spreaders with hydraulic spreading disc drive. See page 82.

N-sensor technology

The new ZA-M series is of course compatible with N-sensor systems for precise, plant-controlled application when equipped with AMADOS⁺ and AMATRON⁺. The N-sensor is the best tool that is currently available to ensure a supply of nitrogen according to requirements. ZA-M fertiliser spreaders are equipped with a serial interface which enables them to communicate with all on-line sensors available on the market. The fertiliser quantities calculated by the relevant sensor can be adopted by the control system on the fertiliser spreader



via the AMAZONE on-board computer. The actual quantity of fertiliser applied is recorded for documentation purposes.

CCI terminal

As an option, ZA-M 1201 and 1501 fertiliser spreaders can be equipped in accordance with the ISOBUS Standard – and therefore also

with the new CCI 200 ISOBUS terminal. See page 78.