

All - purpose high capacity spreaders



- High performance
- Accurate spreading quality
- Very adaptable
- Reducing costs to increase profit



Güstrower

The scraper chain advantage.

One machine can spread any type of agricultural soil improving material.

- Urea, all prilled and granulated fertilisers.
- Mineral fertilisers including sticky products.
- All types of lime even wet or lumpy material.
- Poultry litter & compost.



How exact is the dosing of the scraper chain?

The feed of the scraper chain is electronically controlled. With no slippage of the sprocket drive on the scraper chain combined with the positive traction of the scraper bars on the product mean that once calibrated the Güstrower spreaders have an application rate accuracy of 1-2% of target rate, irrespective of undulating ground or variable rate application and without the need for weigh cells. The rate is automatically adjusted to suit varying operation speed and the closely spaced scraper chain bars can achieve application rates down to 40 kg/ha.

How exact is the spreading pattern?

The two disc spreading system with U-spreading unit will spread high quality fertilisers up to 42 metre with a double overlap system. Spread patterns are subject to regular independent test hall results including new products as they enter the market.

U- spreading unit

- 4 adjustable U-spreading vanes enable spreading widths up to 42 m (Urea 36 m)
- The flat flight path minimizes the sensitivity to wind



All Güstrower spreaders are supplied as standard with an electronically controlled hydraulic drive system and are compatible with all commonly available nitrogen sensors and variable rate field mapping systems.



Late crop applications

The high angle of the standard spreading vanes on the twin disc system elevates the fertiliser allowing it to „rain down“ into the crop without any modifications to the spreader.



High performance

Capacities up to 16 m³ and 19.5 tons, tandem steering axles, 1.85 - 2.25 metre track widths allow all models ideal for both, tramline or bare ground work, with a large range of tyres.



Flexible and very adaptable



Simply by changing the spreading discs the machine is transformed from an highly accurate fertiliser spreader to a very versatile lime spreader for mineral and organic products.



The same spreader can also be fitted with auger booms up to 12 metres and even a road salt spreading unit.



Own hydraulic system

The spreading discs are driven by the spreaders own hydraulic system. Tractor PTO powered, the system can maintain a constant disc speed even with varying tractor engine speeds.



Electronics

Our „state of the art“ computer monitors and accurately controls all spreading functions, with easy application settings and on the go to rate change. It also features an infield auto calibration, 50 job memory and connectivity to GPS variable rate and N-sensor systems.



Running gear

Heavy duty 10 stud commercial high speed axles, large diameter wheels, air brakes and a low centre of gravity with optional suspension system ensure high speed spreading with minimal soil damage even with the largest hopper capacities.

▶ The power driven crumble roller is essential for lumpy or difficult to feed material such as poultry litter and compost. It helps to even the flow of material to the spreading discs for accurate and uniform application.

Gearbox drive to spreading discs

▶ A single hydraulic motor drives the spreading discs via two heavy duty gearboxes. The mechanically linked and synchronised discs, always run at exactly the same speed to ensure accurate and even spread patterns.



Güstrower

Precision Farming and electronic controlled spreaders

Having built spreaders since 1970, in 1997 we were one of the first European producers of high capacity spreaders to build electronically controlled hydraulically powered spreaders for precision farming. With constant application rate relative to ground speed and adjustable on the move either manually by the driver via computer terminal (or optional ISOBUS) and automatically by GPS mapping variable rate system or nitrogen sensor. Combine this with our unique scraper chain with its chain and sprocket drive and slats with their positive „grip“ on spreading product maintaining an accurate feed of material to the discs even when travelling up or downhill, within 1-2% of target without the need for weigh cells. Our spreaders cannot be beaten for constant, accurate and reliable application, day in, day out.



Crop top dressing with electronically controlled hydraulically powered Güstrower spreader combined with „Yara - N - Sensor“.



Computer over serial interface connected with external - electronics (Precision Farming).



Our electronics are „tried and tested“ in the field, robust and reliable.



Optional ISOBUS control.



Hydraulic power is transmitted to the scraper chain system by a heavy duty gearbox. An electronic proportional valve adjusts the speed as required.

Tried and tested spread patterns

Adjustment of working width

The spread pattern is controlled by altering the drop point of fertiliser directly onto the spreading vanes. The drop point is altered without tools by using a combination of the stainless steel guide plates and adjustable spreading table. Optimum adjustments are found through constant spreading hall tests, which are translated into settings for all products, with setting charts supplied with all machines and also available online.



Our spreaders are continuously tested with existing and new fertiliser products at the independent and international recognised Bygholm agricultural research centre, home to the largest fertiliser spreader test laboratory in Europe.



Spreading table „fore & aft“ adjustment without tools.



Stainless steel guide plates control exactly where fertiliser drops on the spreading vanes.

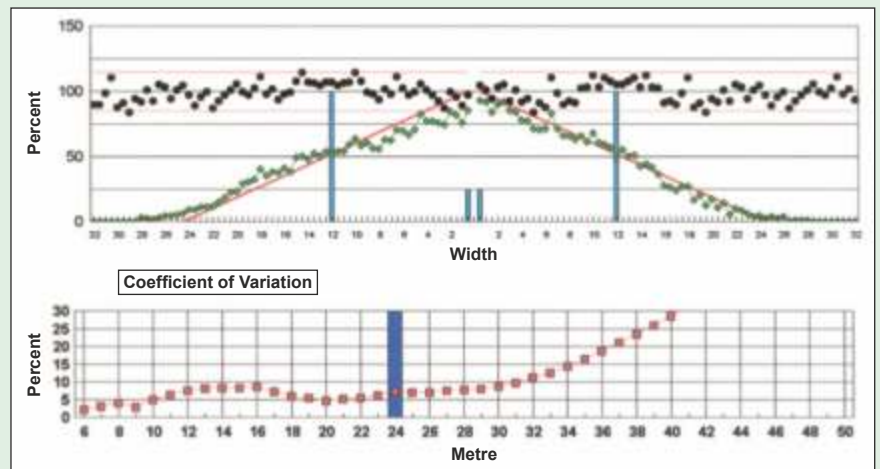
Border spreading

By moving the drop point of material nearer the end of vanes on the left hand side disc using the „border spreading plate“ the spreading width is reduced. The deflector plate „fine tunes“ the altered border pattern to conform with strict EU legislation. The border spreading control is activated manually as standard with hydraulic control optional. All control equipment is stainless steel and adjustable to settings in the spreading charts.

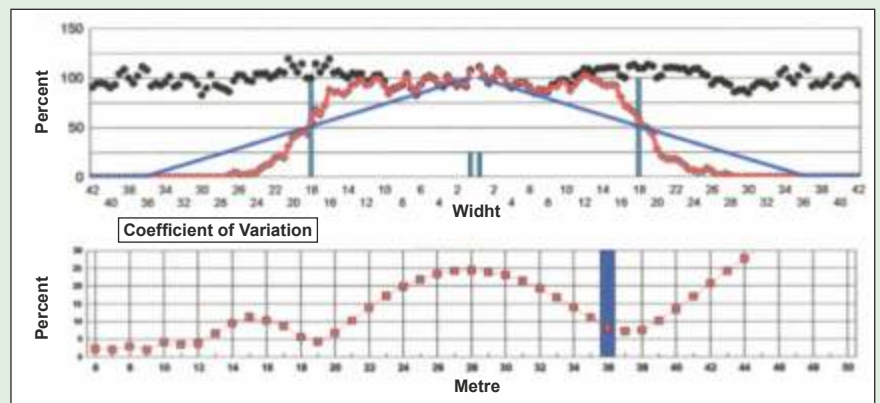


Border spreading with deflector II, switched - on.

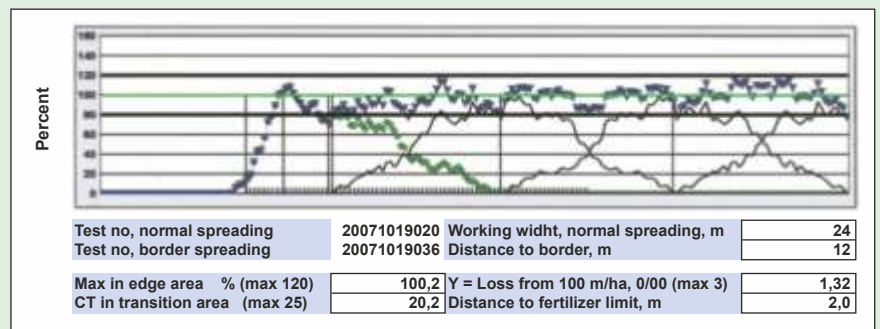
All spreading charts are available online from our website www.mua-landtechnik.de.



Working width: 24 m, coefficient of variation (VK): 6.9%, fertilizer: CAN



Working width: 36 m, coefficient of variation (VK): 8.25%, fertilizer: NPK



Accurate border spreading with deflector II after EN 13739-1.



Güstrower

Client - specific solutions

Options

We offer our client specific options to meet all their requirements.



Low hitch (UK version), alternative hitches and paint colour options.



Bed spreading device for specific applications.



GDK 8.000 T (14 m³) with bogie axle for lime - and fertilizer spreading.



Single - disc system for winter road services (gritter).



Spring suspension of axle.



WeighCells.



Hydraulically operated border control.



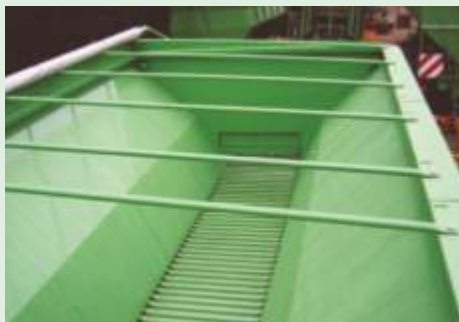
Electro-hydraulic steering drawbar.



Hydraulic fold - away tarpaulin.



Body screens (80 x 80 mm) and mechanical tarpaulin (2 parts).



Rolling tarpaulin with support bars.



Remote hydraulic door to stop spillage of high volume free running material during road transport.

Standard equipment

- Wheel track 1.80 m, speed 25 km/h
- Straight drawbar & Jack (UK option low hitch & slipper, standard in UK)
- Twin circuit air brake system and parking brake
- Constant application rate irrespective of speed, electronic control of application rate with hydraulically driven scraper chain
- Computer with 50 job memory and serial interface
- DGPS variable rate & sensor compatible
- +/- on the move adjustment of application rate in percentage steps set by operator
- Disc drive from high power self contained hydraulic drive system, PTO driven width wide angle drive shaft
- Drive of scraper chain/belt by tractors own hydraulics
- 40 m twin disc spreading system with double overlap spreading
- Application rate from 40 - 16,000 kg/ha (scraper chain) or 30 - 3,000 kg/ha (belt)
- Border spreading, mechanical
- Regulation of spreading discs speed
- Control equipment in stainless steel, vanes standard material
- Splitter to ensure even fertiliser application when operating on side slopes
- Fertiliser control/guide plates in stainless steel
- Connection lead and pipes/hoses to tractor

Technical dates

Trailed high capacity spreader	GDK 5.000	GDK 6.000	GDK 7.000	GDK 8.000	GDK 10.000	GDB6.000
Conveyor system	Scraper chain	Scraper chain	Scraper chain	Scraper chain	Scraper chain	Belt Body
capacity	5 m ³	6 m ³	7 m ³	8 m ³	10 m ³	6 m ³
+ Hopper extension (300 mm)	7 m ³	8.5 m ³	10 m ³	11 m ³	14 m ³	8.5 m ³
+ Hopper extension (450 mm)	8 m ³	10 m ³	11 m ³	12.5 m ³	16 m ³	10 m ³ Total
weight * (allowed)	12,000 kg	12,000 kg	12,000 kg	12,000 kg	22,400 kg	12,000 kg
Payload * at public roads	8,800 kg	8,600 kg	8,500 kg	8,200 kg	14,300 kg	9,600 kg
Technical payload *	10,920 kg	10,650 kg	10,900 kg	11,000 kg	18,500 kg	10,500 kg
Total length	5.54 m	6.20 m	6.70 m	7.20 m	8.80 m	6.70 m
Measurements of bin (length x width)	3.0 m x 2.28 m	3.6 m x 2.28 m	4.1 m x 2.28 m	4.65 m x 2.28 m	6.0 m x 2.28 m	4.0 m x 2.28 m

* depending of mounted wheels

Güstrow high capacity spreaders have three possible applications in agriculture

Capable of spreading all kinds of granular and prilled high quality fertiliser, all types of mineral and alternative fertilisers, off spec fertilisers, lime, gypsum, poultry litter and compost.



Heavy duty „hardox“ 5 vane „lime“ discs for all materials except high quality fertiliser. With working widths up to 18 m and application rates up to 2,200 kg/min.



Auger/screw booms up to 12 m to spread powder products at rates from 500 - 7,000 kg/ha.



Double overlap twin discs for high quality fertiliser, standard 5 vane, high lift discs for working widths up to 36 metres and optional U type 4 vane discs for working widths up to 42 metres, ideal for Urea and small or light prills and granules, also in windy conditions.

All purpose mounted spreaders to suit self propelled power units & trucks



MAN with mounted spreader and 8 m - spreading screw.



Mounted spreader for soil stabilisation.



Mounted spreader at Dammann - Trac DT 2000 H.



Mounted spreader on Terra Gator.



Mounted gritter for spreading moistly salt (w inter road services).



At 14 to - MAN mounted spreaders (client is a contractor).



Mounted spreader on MB - Unimog.



Mounted spreader on Rogator.



Mounted spreader on converted lorry.