Manure / Universal Spreaders

A strong line for effective operations
BERGMANN, a successful, medium-sized, family-owned company in the third generation, has been firmly linked to its business location in Goldenstedt and its people for 120 years.

Our actions are determined by an awareness of tradition and our innovative strength. Our state-of-the-art machines for spreading and grassland technology, harvesting and transport logistics meet the highest quality standards and are in use worldwide every day.

As a strong and reliable partner in the agricultural sector, we develop and produce practical agricultural technology for our customers at our company’s factory in Goldenstedt. Our company philosophy, our ambition and our commitment are:

*Quality “Made in Goldenstedt/Germany”*
Powerful spreading technology for continuous professional use

BERGMANN’s innovative and proven spreading technology ensures the right technical solutions for all sizes and applications.

Optimum chassis technology and safe drive technology provide for high performance. Our components are subject to strict quality standards for maximum safety, reliability and durability, even under continuous operation.

All elements are clearly arranged and carefully coordinated, down to the last detail.

With our state-of-the-art spreader units, high-quality materials such as compost, organic sludge, separated fermentation substrate, lime and all types of cow and poultry manure are spread precisely, over large areas with minimum environmental impact.

Tapered all-steel bin with extra wide bridge and high load capacity. The inner width increases continuously from the front wall to the spreading unit. The result is no pressure build-up in the cargo space, and the load is evenly transported to the spreader unit.
The large front wall maintenance hood provides for easy cleaning and maintenance of the scraper floor, which can be easily seen through the window.

Optionally available with air brake system. A 40 km/h version is also optionally available in combination with the air brake system.

Wide tires with low tire pressure prevent soil compaction.

Standard overrun brake with auto-reverse in the 25 km/h version.

The M 1080 Manure Spreader with a robust chassis, bolted drawbar and sturdy jack stand for large payloads. A one-sided wall attachment for increasing the load volume is optionally available. The self supporting bin eliminates the need for a supporting frame and thus offers almost no possibilities for dirt to collect. Both result in minimum maintenance and cleaning times.

The M 1080 Manure Spreader with a robust chassis, bolted drawbar and sturdy jack stand for large payloads. A one-sided wall attachment for increasing the load volume is optionally available. The self supporting bin eliminates the need for a supporting frame and thus offers almost no possibilities for dirt to collect. Both result in minimum maintenance and cleaning times.

BERGMANN Manure Spreader M 1080 SW
Single axle | 8,000 kg
**Scraper floor**
The two round steel chains (ca. 11 x 31 mm, 15 τ per chain) are deeply embedded in large chain wheels. Deflection pulleys with scrapers in the front and rear ensure safe scraper floor chain guidance. The scraper floor bars run on extra wear rails.

The hydraulic **scraper floor drive** ensures transport of the most diverse materials to the spreader unit.

**SW spreader unit** with 1,300 mm throughput.
Four vertical beaters with bolted flat steel lines.

The universal spreader unit for all types of manure with very good transverse and longitudinal distribution and high throughput capacity with low power requirements.

**Central protection**
The heavy-duty drive train with a central protection and large gearboxes ensures a long service life.

**Drive train**
One-piece drive shaft
Central cam clutch in PTO shaft between tractor and trailer (on trailer side)

The automatic **scraper floor chain tensioners** are mounted on the front side of the trailer and are visible from the tractor. They can be easily adjusted from the outside.

**Hydraulically operated spreader unit hood**
The side-mounted steel plates prevent material from falling on the road.

**BERGMANN Manure Spreader M 1080 SW**
Single axle | 8,000 kg

The optional manual **scraper floor control** makes exact material dosing possible.
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**Manure / Universal Spreader M/TSW 2120 E/T**

Single and tandem axle | 8,000 - 12,000 kg

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All lubrication points are easily accessible or grouped into lubrication blocks for quick and easy maintenance.

The use of spacers makes it possible to steadily adjust the drawbar height for every tractor. The spring elements provide for high driving comfort.

Standard overrun brake with auto-reverse. Air brakes and hydraulic brakes (without ALB) are optional.

The optional central lubricating system provides for a continuous flow of lubricant which is adapted for each individual bearing. This significantly reduces maintenance efforts.

With the automatic tensioning system, which is visible from the tractor, the four high-strength scraper floor chains can be easily adjusted from the front. This allows for a high degree of safety and smooth operation.

Exact height indicator for the optional hydraulic dosing wall. The protective screen provides for a good view of the scraper floor chains. The cargo space and transport floor can be seen easily through the window.

Optional high or low drawbar with fold-up jack stand. “Jost” landing gear for easy coupling optionally available. The side wall height - and thus the load capacity - can be increased using side wall extensions.

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M 2120 Manure Spreader as a single-axle or tandem vehicle

TSW 2120 Universal Spreader as a single-axle or tandem vehicle

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Optional high or low drawbar with fold-up jack stand. “Jost” landing gear for easy coupling optionally available. The side wall height - and thus the load capacity - can be increased using side wall extensions.
Scraper floor with hydraulic drive
The four round steel chains (ea. 14 x 50 mm, 25 t per chain) are deeply embedded in large chain wheels (little wear and tear). The chains are stretched in pairs. Deflection pulleys with scrapers in the front and rear ensure safe scraper floor chain guidance. The scraper floor bars run on extra wear rails.

The hydraulic scraper floor drive with spur gear box ensures safe transport of the most diverse materials to the spreader unit. A reinforced drive is optionally available.

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Manure / Universal Spreader M/TSW 2120 E/T
Single and tandem axle | 8,000 - 12,000 kg

TSW spreader unit drive via roller chain. Spring-mounted chain tensioners ensure optimum power transmission and low wear.

The M spreader units (SW and SX) are driven via PTO shaft and chainless drive train.

Automatic lubrication of spreader unit drive chains is optional.

M 2120 SW E/T
SW spreader unit with 1,300 mm throughput. Four vertical beaters with bolted flat steel tines.

M 2120 SX E/T
SX spreader unit with 1,400 mm throughput. Four vertical reinforced beaters with bolted flat steel tines.

Hydraulically operated spreader unit hood.

Central protection M 2120 SW E/T
The heavy-duty drive train with a central protection and large gearboxes ensures a long service life.

Central protection M 2120 SX E/T
The heavy-duty drive train with a central protection and large gearboxes ensures a long service life.

Central protection with speed monitoring
The heavy-duty drive train with a central protection and large gearboxes ensures a long service life.

TSW 2120 E/T
SM spreader unit with 1,350 mm throughput. Two horizontal beaters (optionally reinforced) with bolted flat steel tines and a spreader disk unit with two disks, ea. 900 mm Ø and four adjustable spreader blades.

Spreader unit hood
The throughput height and the angle of inclination on the lower part of the tailgate can be manually adjusted for various materials and conditions. This makes it possible to optimally adjust the feed point of the material onto the spreader disk and thus specify the precise output. A spring safety device serves as protection against foreign objects.
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Manure / Universal Spreader M/TSW 3140 E/T
Single and tandem axle | 12,000 - 14,000 kg

Optional high or low drawbar with fold-up jack stand. “Jost” landing gear for easy coupling as standard equipment. The side wall height - and thus the load capacity - can be increased using side wall extensions.

Chassis
Standard 4-spring suspension unit, parabolic springs and air brake system. Lift axle and follow-up steering are optionally available.

Exact height indicator for the optional hydraulic dosing wall. The protective screen provides for a good view of the scraper floor chains. The cargo space and transport floor can be seen easily through the window. The optional central lubricating system provides for a continuous flow of lubricant which is adapted for each individual bearing. This significantly reduces maintenance efforts.

All lubrication points are easily accessible or grouped into lubrication blocks for quick and easy maintenance.

With the automatic tensioning system, which is visible from the tractor, the four high-strength scraper floor chains can be easily adjusted from the front. This allows for a high degree of safety and smooth operation.

The use of spacers makes it possible to ideally adjust the drawbar height for every tractor. The spring elements provide for high driving comfort.
Scaper floor with hydraulic drive
The four round steel chains (ea. 14 x 50 mm, 25 t per chain) are deeply embedded in large chain wheels (little wear and tear). The chains are stretched in pairs. Deflection pulleys with scrapers in the front and rear ensure safe scraper floor chain guidance. The scraper floor bars run on extra wear rails.

The hydraulic scraper floor drive with spur gear box ensures safe transport of the most diverse materials to the spreader unit. A reinforced drive is optionally available.

Hydraulically operated spreader unit hood.

TSW 3140 E / T
Central protection
The heavy-duty drive train with a central protection and large gearboxes ensures a long service life.

Central cam clutch in PTO shaft between tractor and trailer (on trailer side)

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Manure / Universal Spreader M / TSW 3140 E / T
Single and tandem axle | 12,000 - 14,000 kg

TSW spreader unit drive via roller chain. Spring-mounted chain tensioners ensure optimum power transmission and low wear (left). The optional cardanic drive minimizes maintenance and provides high power reserves. The M SZ spreader unit is driven via PTO shaft and chainless drive train.

Speed monitoring on the upper spreading beater

M 3140 SZ E / T
Central protection
The heavy-duty drive train with a central protection and large gearboxes ensures a long service life.

Central cam clutch in PTO shaft between tractor and trailer (on trailer side)

Hydraulically operated spreader unit hood.

TSW 3140 E / T
Central protection with speed monitoring
The heavy-duty drive train with a central protection and large gearboxes ensures a long service life.
**BERGMANN Manure Spreader M 4190**  
**Tandem axle | 16,000 - 19,000 kg**

- **Scraper floor with hydraulic drive**
  - The four round steel chains (ea. 14 x 50 mm, 25 t per chain) are deeply embedded in large chain wheels (little wear and tear). The chains are stretched in pairs. Deflection pulleys with scrapers in the front and rear ensure safe scraper floor chain guidance. The scraper floor bars run on extra wear rails.

- **Chassis**
  - Standard 4-spring pendulum unit and parabolic springs. Lift axle, follow-up steering and forced steering (also available with computer control) are optional.

- **Spreader unit SZ** 1,400 mm throughput.
  - Four vertical beaters with bolted flat steel tines and hydraulically operated spreader unit hood. The spreader unit is driven via transfer case and four roller gearboxes.

- **Optimal high or low drawbar** with spring-mounted drawbar for high driving comfort and good driving stability. The use of spacers makes it possible to ideally adjust the drawbar height for every tractor.

- **Central protection M 4190 SZ**
  - The heavy-duty drive train with a central protection and large gearboxes ensures a long service life.
 Operation | control: without ISOBUS

**E-Controls light**
- Electromagnetic scraper floor adjustment
- Stepless scraper floor speed adjustment
- SPEED monitor
- Scraper floor ON / OFF

**Pilotbox**
- ON / OFF for operation
- Steepless scraper floor speed adjustment
- Reverse scraper floor
- Lock and unlock follow-up steering
- Open and close spreader hood
- Raise and lower dosing wall
- Lift axis, spread pattern limiter and jack stand (option)

BERGMANN BCT20 Comfort Controls
- ON / OFF for operation
- Ergonomically arranged keys
- Backlit display and keypad
- Trip counter
- Scraper floor ON / OFF
- Steepless scraper floor speed adjustment
- Scraper floor speed control in m/min
- Reverse scraper floor
- Lock and unlock follow-up steering
- Speed monitoring of spreader unit
- Speed monitoring of spreader disks
- Raise and lower dosing wall
- Open and close spreader hood
- Work light ON / OFF
- Raise and lower hydraulic jack stand
- Raise and lower the lift axe
- Raise and lower the spread pattern limiter
- Spread volume control: manual or vehicle speed dependent
- *optional

**CCI-Control (TC bas/geo)**
- ISOBUS Task Controller: TC-BAS and TC-GE0
- Job management
- Documentation: Number of trips, times, material spread (with existing weighing system) and surface treated
- Job summary as PDF report
- ISOBUS section control (→AEF: TC-SC): Automatic switching on and off of the scraper floor
- Internal pre-turning limit for switching the section control or scraper floor
- External light strip L 10 for mounting directly in the field of view

**CCLCommand (TC:PT/SC)**
- Job summary and documentation of exact position (using GPS) and output quantities in ISOXML format
- Export and import of jobs via USB or internet
- Variable spread amounts on one surface → “VAR” Variable Rate Application using spread maps in ISOXML or Shape format
- Parallel driving aid in CCI terminal: Exact trip connection
- Different guiding contours: A-B line, curve, etc.
- Display of treated and untreated surfaces, automatic with coupled ISOBUS spreader
- Area counter
- Save individual areas

BERGMANN operation ISOBUS
- All information is displayed in the correct positions on the vehicle e.g: effective width, treated surface, driving speed, target application rate, dosing wall height, steering axle status
- With integrated weighing system (option): current load, spread material, target actual spread quantity in t/ha
- Separate “Settings” page shows all possible settings on one page
- A simple product database makes the loading and saving of product-specific parameters possible
- Simple and logical pictograms for the operation of the respective machine function
- Integrated trip counter
- Possible on all ISOBUS terminals with six or more softkeys
- Control possible via separate joystick or tractor control lever (AUX-N)
- Automatic spread quantity control based on the vehicle speed
- Calculation of the dosing wall height through robust measuring system in the cylinder

**ISOBUS-Terminal CCI**
- Ergonomically arranged keys, with the possibility to mirror them from left to right
- Interfaces incl. USB, wifi, video and more
- Up to eight video cameras possible
- *optional

**ISOBUS terminal CC150 / CC200**
- ISOBUS-compatible terminal (AEF: LT) for controlling and operating ISOBUS devices
- Large, clear displays
- Scale: 5,6“ diagonal, CC200 – 8,3” diagonal
- Backlit display and keypad
- Touchscreen for intuitive operation
- Optional wide range of apps: CCI.CONTROL, CCI.COMMAND, CCI.CAM, CCI.COURIER, CCI.FIELDNAV, CCI.FARNPILOT, CCI.TECU etc.

**AEF (Agricultural Industry Electronics Foundation):**
Worldwide association including more than 190 predominantly agricultural manufacturers with focus on “development and standardization of agricultural electric and electronics”:
- ISOBUS, farm management information systems (FMIS), electrical drives, camera systems, high-speed ISOBUS, wireless field communication
- Certification of ISOBUS components as well as administration and publication of results in the AEF database
- The AEF database enables manufacturers, dealers, farmers and contractors to check the compatibility of the individual ISOBUS devices and vehicles as well as their specific functions
- The AEF label on vehicles and equipment provides information on certified functions

Since 2009, BERGMANN has been one of the first extraordinary members of CCI - Competence Center ISOBUS e.V., which develops CCI terminals and apps.

Customer advantages:
Individual manufacturers’ operations are becoming more comparable and easier to understand – in accordance with the CCI motto “team play works”.

**Team play works.**

CCISOBUS

AEF

(Customer advantages:
Individual manufacturers’ operations are becoming more comparable and easier to understand – in accordance with the CCI motto “team play works”).
Disk spreader unit TSW 2120 E / T
Two large spreader disks (ea. 900 mm Ø) each with four adjustable spreader blades

Disk spreader unit TSW 3140 E / T
Two large spreader disks (ea. 1,000 mm Ø) each with four adjustable spreader blades

DLG tested and recognized
In keeping with their high level of quality BERGMANN spreaders received the highest recognition for quality and functionality with outstanding spreading precision from the German Agricultural Society DLG.

As part of the DLG Fokus Test, the distribution of manure and compost with target quantities was successfully tested in May 2011 based on the DLG test framework “Spreaders for organic solids”. The requirements for distribution quality according to DLG test framework were fulfilled and the DLG label “DLG-FokusTest distribution quality manure and compost, 09/11” was awarded.

Spreaders Units
Exact, fine, precise spreading

The optional, hydraulically operated spread pattern limiter prevents the contamination of roads, paths and waterways etc. and ensures precise and uniform spreading of fields, right up to the edges.

A one-sided version of the spread pattern limiter - optionally right or left - is also available on request.

Excellent results with all types of material

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<tr>
<th>Technical Data</th>
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**Manual spreaders**

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<th>Dimensions and weights</th>
<th>M 1080 SW</th>
<th>M 2120 E</th>
<th>M 2120 T</th>
<th>M 3140 E</th>
<th>M 3140 T</th>
<th>M 4190 SZ</th>
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<td>Single axle</td>
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**Universal spreaders**

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<th>Dimensions and weights</th>
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Optional:

- ALB - automatic load sensitive brake system
- Lift axle
- “Joel” landing gear
- Side wall extensions
- ABC20 comfort controls
- ISOBUS comfort controls
- Central lubrication
- Various tire options

* with tire 620/40 R 22.5 Vredestein ** with tire 650/50 R 22.5 Nokian

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Our product range contains the right vehicle for every operation and every application.

- Manure spreaders
- Universal spreaders
- Silage trailers
- Combi silage trailers
- Large capacity combi trailers
- Forage transport trailers
- Vario chassis systems
- Grain transfer wagons
- Beet overloading wagons
- Self-propelled systems

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