

M 1080 _ M/TSW 2120 E _ M/TSW 2120 T
M/TSW 3140 E _ M/TSW 3140 T _ M 4190

BERGMANN

...the specialists

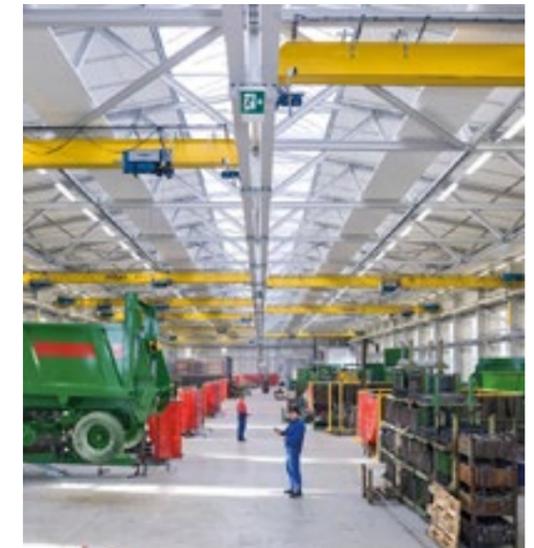
Manure / Universal Spreaders

A strong line for effective operations





***Sophisticated quality:
"Made in Goldenstedt/
Germany"***

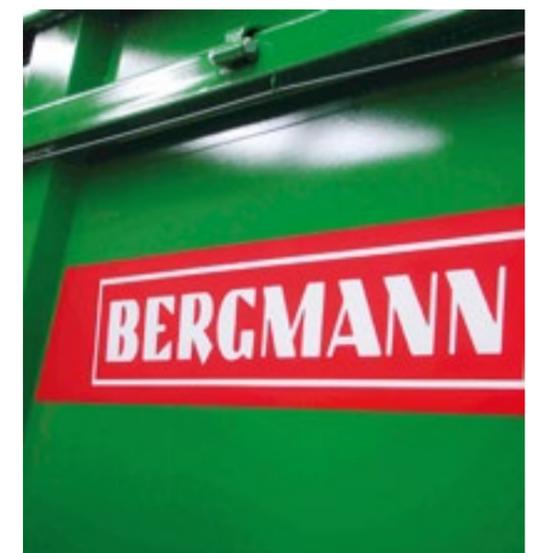


BERGMANN, a successful, medium-sized, familyowned company in the third generation, has been firmly linked to its business location in Goldenstedt and its people for 120 years.

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"





BERGMANN Manure / Universal Spreaders

- powerful
- robust
- reliable



DLG tested spreader units – top functionality and quality with outstanding spreading precision

Precise, accurate and standardized application of different spreading materials is one of the most important agricultural tasks and contributes significantly to success. It ensures the quick release and optimum supply of nutrients, promotes homogeneous plant growth and thus increases the harvest yield.



Operating comfort:

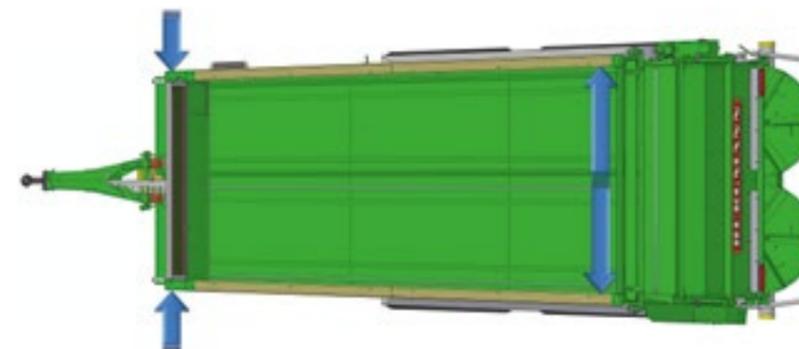
Through the optional operation and control components, BERGMANN universal spreaders can be optimally adapted to individual requirements.

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.

Advantages for the user:

- high work performance and payload –
- maximum power –
- enormous effective width –
- operating comfort –

- sustainability –
- lower cost factors –
- higher quality of work –
- higher efficiency and precision –
- less downtime –
- higher surface coverage –

INCREASED YIELD



The large front wall **maintenance hood** provides for easy cleaning and maintenance of the scraper floor, which can be easily seen through the window.

BERGMANN Manure Spreader M 1080 SW

Single axle | 8,000 kg



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.

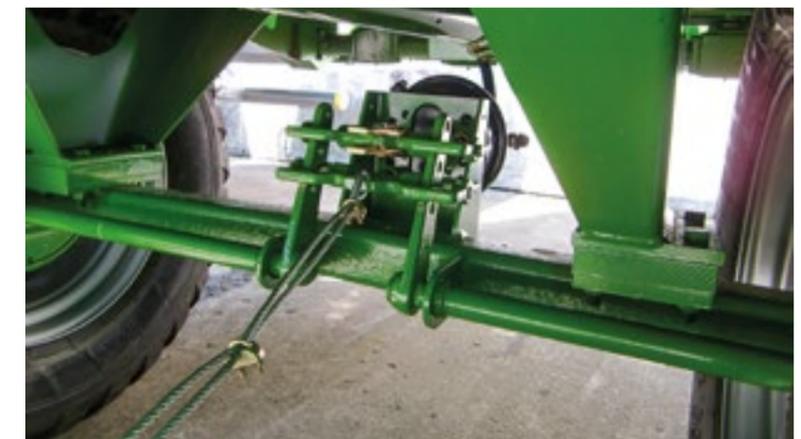


The **self supporting bin** eliminates the need for a supporting frame and thus offers almost no possibilities for dirt to collect. Both result in minimum maintenance and cleaning times.



Wide tires with low tire pressure prevent soil compaction.

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



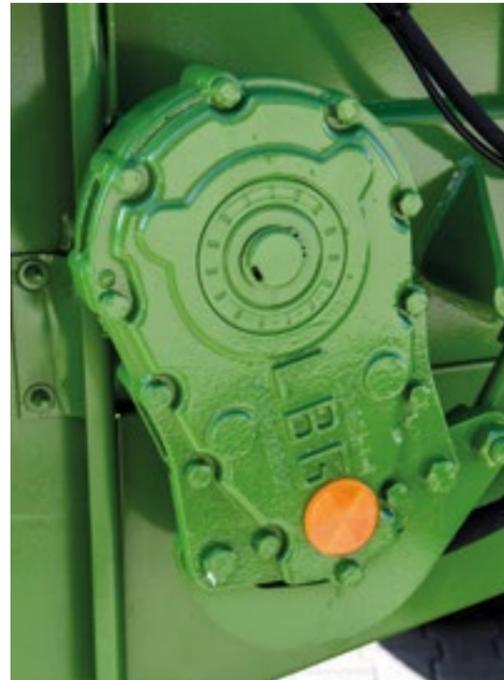
Optionally available with **air brake system**. A 40 km/h version is also optionally available in combination with the air brake system.

Scraper floor

The two **round steel chains** (ea. 11 x 31 mm, 15 t 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.

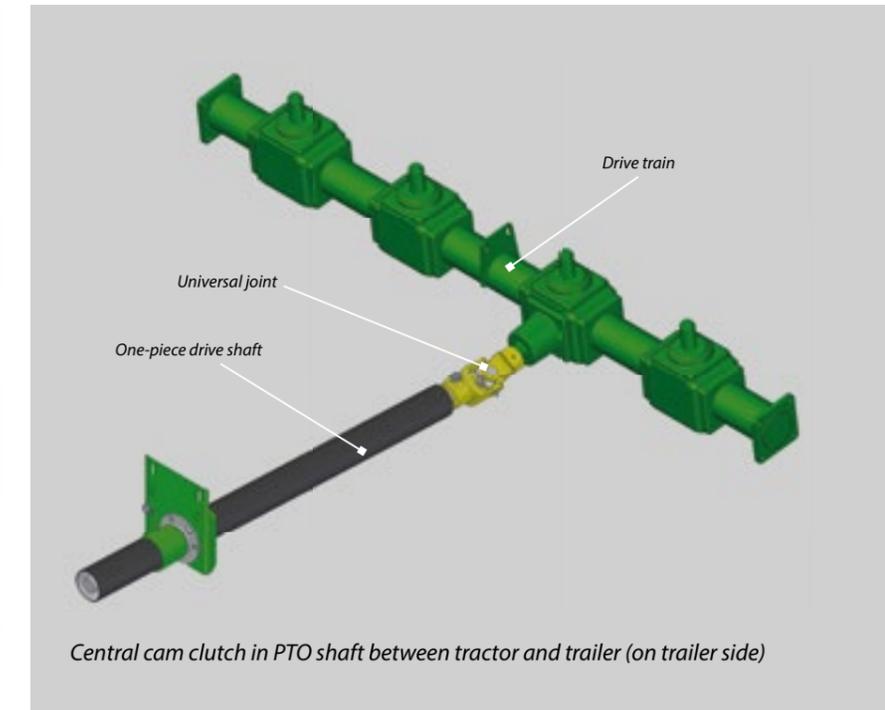


SW spreader unit with 1,300 mm throughput. Four vertical beaters with bolted flat steel tines.



Central protection

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



BERGMANN Manure Spreader M 1080 SW

Single axle | 8,000 kg

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



The optional **manual scraper floor control** makes exact material dosing possible.



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 / Universal Spreader M / TSW 2120 E / T

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



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



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

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.



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.



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



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.



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

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.



BERGMANN

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.

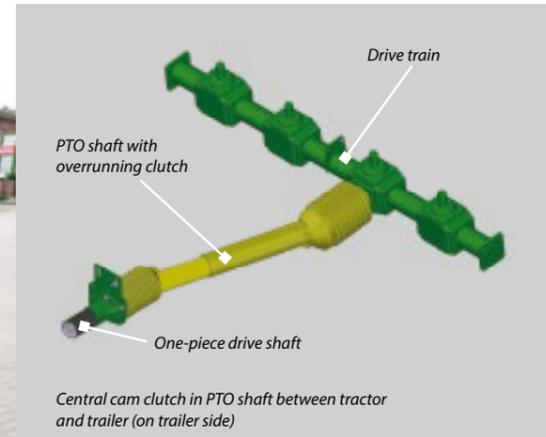


M 2120 SW E / T
SW spreader unit with 1,300 mm throughput. Four vertical beaters with bolted flat steel tines.



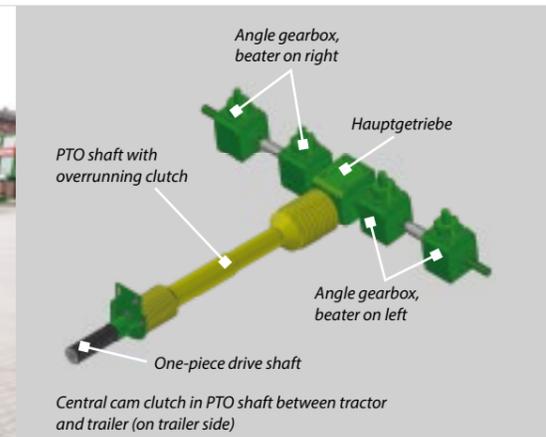
M 2120 SX E / T
SX spreader unit with 1,400 mm throughput. Four vertical reinforced beaters with bolted flat steel tines.

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.



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.

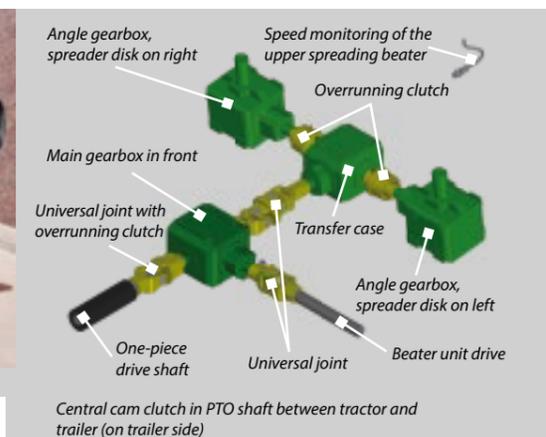


Hydraulically operated **spreader unit hood**

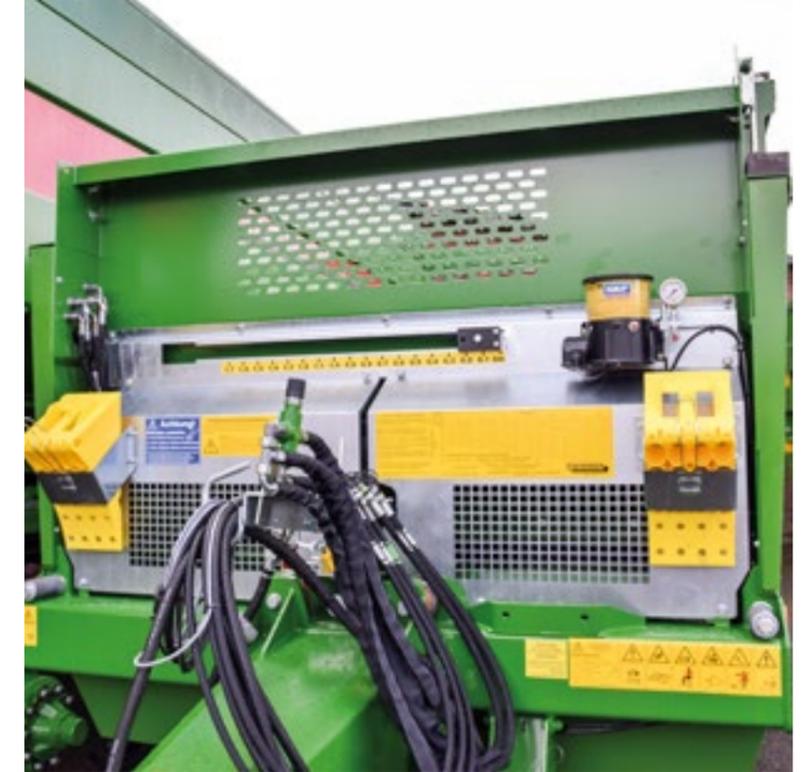
Central protection M 2120 SX E / T
The heavy-duty drive train with a central protection and large gearboxes ensures a long service life.



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.



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



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.

BERGMANN

Manure / Universal Spreader M / TSW 3140 E / T

Single and tandem axle | 12,000 - 14,000 kg



M 3140 Manure Spreader as a single-axle or tandem vehicle

TSW 3140 Universal Spreader as a single-axle or tandem vehicle

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**.



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

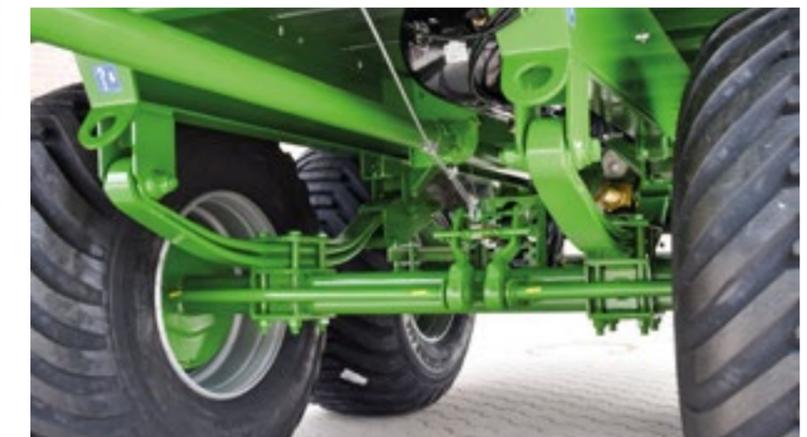
With the automatic **tensioning system**, which is visible from the tractor, the four high-strength scraper floor chains can be easily adjusted from the front. This allows for a high degree of safety and smooth operation.



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



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



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.



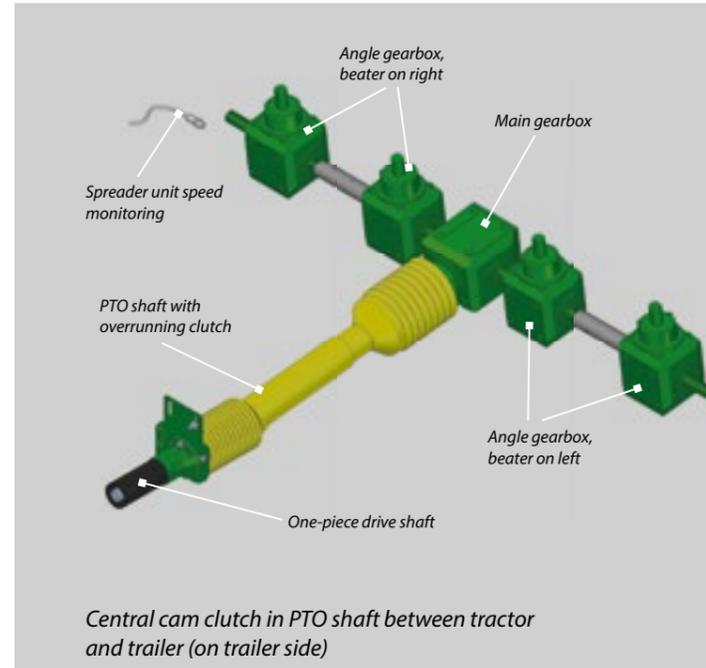
The hydraulic **scraper floor drive** with spur gear box ensures safe transport of the most diverse materials to the spreader unit. A reinforced drive is optionally available.



M 3140 SZ E / T

Central protection

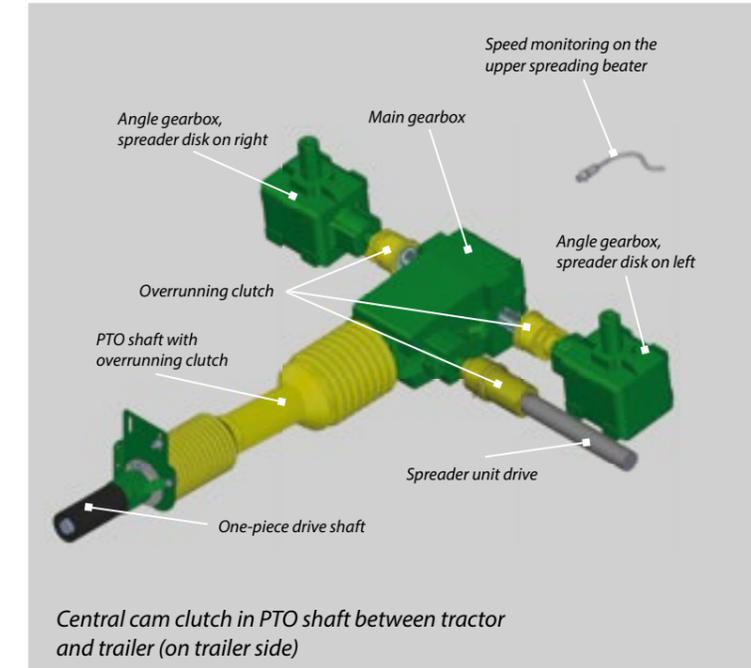
The heavy-duty drive train with a central protection and large gearboxes ensures a long service life.



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 / Universal Spreader M / TSW 3140 E / T

Single and tandem axle | 12,000 - 14,000 kg

SZ spreader unit
1,400 mm throughput.
Four vertical beaters with bolted flat steel tines.

M 3140 SZ E / T



Spreader unit SH
1,400 mm throughput.
Two horizontal beaters with bolted flat steel tines and a spreader disk unit with two disks, ea. 1,000 mm Ø and with four adjustable spreader blades.

TSW 3140 E / T



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.



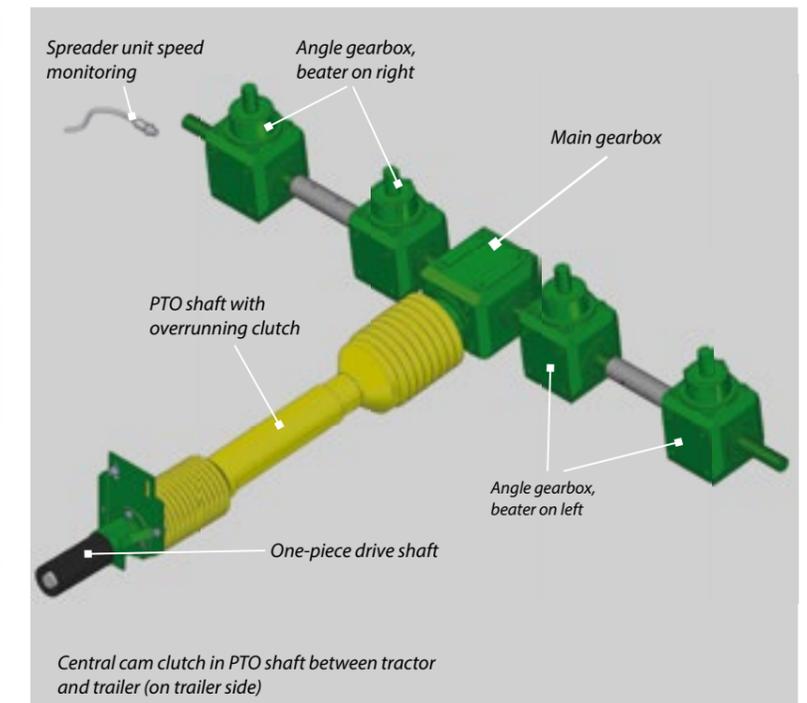
Hydraulically operated **spreader unit hood**.

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.





Central protection M 4190 SZ
The heavy-duty drive train with a central protection and large gearboxes ensures a long service life.

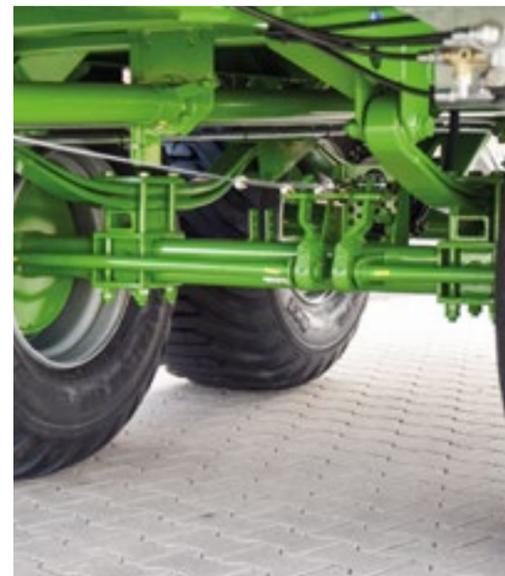


BERGMANN Manure Spreader M 4190

Tandem axle | 16,000 - 19,000 kg



Optional 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.



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

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.



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.



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.

Operation | control: without ISOBUS



E-Controls light

- Electromagnetic scraper floor adjustment
- Stepless scraper floor speed adjustment
- Scraper floor ON / OFF



Pilotbox

- ON / OFF for operation
- Stepless scraper floor speed adjustment
- Reverse scraper floor follow-up steering
- Open and close spreader hood
- Raise and lower dosing wall
- Lift axle, 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
 - Stepless 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 axle*
 - Raise and lower the spread pattern limiter*
 - Spread volume control: manual or vehicle speed dependent*
- * optional

Operation | Control Manure / Universal Spreader

CCI.Control (TC bas/geo)



- ISOBUS Task-Controller: TC-BAS and TC-GEO
- Job management
- Documentation: Number of trips, times, material spread (with existing weighing system) and surface treated
- Job summary as PDF report



- 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 - "VRA" Variable-Rate Application using spread maps in ISOXML or Shape format

CCI.Command (TC.PT/SC)



- 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
- 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

ISOBUS-Terminal CCI



ISOBUS terminal CCI150 / CCI200

- ISOBUS-compatible terminal (AEF: UT) for controlling and operating ISOBUS devices
- Large, clear displays (CCI150 - 5,6" diagonal, CCI200 - 8,3" diagonal)
- Backlit display and keypad
- Touch screen for intuitive operation
- Optional wide range of apps: CCI.CONTROL, CCI.COMMAND, CCI.CAM, CCI-COURIER, CCI.FIELDNAV, CCI.FARMPLOT, CCI.TECU etc.

- 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
- Emergency stop button

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



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".



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":

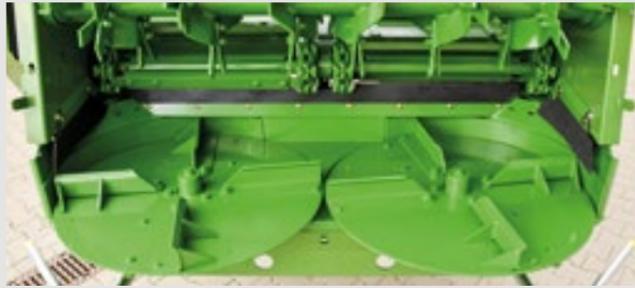
- ISOBUS, farm management information systems (FMIS), electrical drives, camera systems, high-speed ISOBUS, wireless field communication

- Certification of ISOBUS components as well as administration and publication of results in the AEF database

- The AEF database enables manufacturers, dealers, farm contractors and farmers 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

Excellent results with all types of material



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 Focus 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.

Spreader 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.

Technical Data

Manual spreaders

Dimensions and weights		M 1080 SW	M 2120 E	M 2120 T	M 3140 SZ E	M 3140 SZ T	M 4190 SZ
		Single axle	Single axle	Tandem	Single axle	Tandem	Tandem
Gross vehicle weight	kg	8,000	8,000-12,000	8,000 - 12,000	12,000	14,000	16,000- 19,000
Dead weight	kg	2,235	3,640	4,360	4,300	4,850	5,820
Payload	kg	5,765	4,360 - 8,360	3,640 - 7,640	7,700	9,150	10,180 - 13,180
Bridge dimensions							
Length	mm	4,200	4,700	4,700	4,900	4,900	5,400
Width	mm	1,800	1,800	1,800	2,050	2,050	2,050
Height	mm	570	1,070	1,070	1,070	1,070	1,070
Vehicle dimensions							
Length	mm	6,300	7,120	7,120	7,470	7,470	8,000
Width	mm	2,070	2,150	2,150	2,500	2,500	2,550
Height	mm	2,670	3,260	3,310	3,200	3,300	3,250
Transfer height series	mm	1,900*	2,400*	2,430*	2,560**	2,590**	2,600**
Load capacity	m ³	6.80	9.10	9.10	14.10	14.10	15.75
Power requirements	kW	51 - 88	66 - 103	66 - 103	74 - 110	74 - 110	81 - 125
	PS	70 - 120	90 - 140	90 - 140	100 - 150	100 - 150	110 - 170

Universal spreaders

Dimensions and weights		TSW 2120 E	TSW 2120 T	TSW 3140 E	TSW 3140 T
		Single axle	Tandem	Single axle	Tandem
Gross vehicle weight	kg	8,000 - 12,000	8,000 - 12,000	12,000	14,000
Dead weight	kg	4,060	4,780	4,700	5,250
Payload	kg	3,940 - 7,940	3,220 - 7,220	7,300	8,750
Bridge dimensions					
Length	mm	4,700	4,700	4,900	4,900
Width	mm	1,800	1,800	2,050	2,050
Height	mm	1,070	1,070	1,070	1,070
Vehicle dimensions					
Length	mm	7,520	7,520	7,740	7,740
Width	mm	2,150	2,150	2,500	2,500
Height	mm	3,260	3,310	3,200	3,300
Transfer height series	mm	2,400*	2,430*	2,560**	2,590**
Load capacity	m ³	8.60	8.60	12.10	12.10
Power requirements	kW	74 - 118	74 - 118	81 - 125	81 - 125
	PS	100 - 160	100 - 160	110 - 170	110 - 170

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

Optional:

- ALB - automatic load sensitive brake system
- Beater spreader unit with cardan drive
- ISOBUS comfort controls
- Lift axle
- Spread pattern limiter
- Central lubrication
- „Jost“ landing gear
- Various lighting possibilities
- Various tire options
- Side wall extensions
- BCT20 comfort controls

We reserve the right to make changes to dimensions, weights and technical data. Dimensions and weights do not necessarily correspond to series versions and are not binding. Illustrations may contain additional equipment.

**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

BERGMANN

...the specialists

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