

M/TSW 5210 S/W | M/TSW 6240 S/W | M/TSW 7340 S  
Gross weight of 20,000 to 34,000 kg

**BERGMANN**

*...die Spezialisten*

# Manure/universal spreaders

A strong line for effective operations







*Proven quality:  
"Made in Goldenstedt"*



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 over 125 years.

Our actions are determined by an awareness of tradition and our innovative strength. Our state-of-the-art products 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"**





## The manure and universal spreaders with a gross vehicle weight of 22,000 kg to 34,000 kg

BERGMANN has always pursued innovative ideas and significantly promoted important developments. Our modern manure and universal spreaders are the ideal choice for environment friendly large-surface spreading of quality materials, such as compost, organic sewage sludge, lime and all kinds of cattle and poultry manure. BERGMANN manure and universal spreaders operate reliably even under difficult conditions. Due to their high quality standards, BERGMANN spreaders were awarded the highest recognition for functionality and quality with outstanding spreading accuracy by the German Agricultural Association DLG.

Wherever particularly demanding conditions prevail, BERGMANN manure and universal spreaders come into their own. To cater for different materials and spreading requirements, all vehicles can be fitted with various spreader units for application rates from 1 to 50 t/ha.

A wide range of optional extras allow the machines to be adapted to specific customer requirements. All manure and universal spreaders can be operated via ISOBUS.





# Manure/universal spreaders M/TSW 5210 S/W

## Features at a glance

### TSW 5210 S/W:

- Milling unit (1,500 mm passage height) with two horizontal beaters and chain drive (standard), **optional cardan drive** and 3-beater spreader unit (1,800 mm passage height)
- **Screwed double tines** for finest shredding of the spreading material
- Disk spreader unit with two disks (ø 1,000 mm, thickness 8 mm, six spreader blades each) for **exact spreading of all materials**
- Optional **wide spreading unit V-Spread** for working widths up to 36 m (spreader disks ø 1,100 mm each)

### M 5210 S/W:

- **Hybrid spreader unit 2-Spread** (1,700 mm passage height) with two vertical beaters
- The ideal combination of manure and universal spreader unit, also suitable for lime, compost and other spreading materials.

**Conical all-steel bin** prevents bulking of material in front of the spreader unit and ensures superior reliability, consistent application rates and reduced power demand.

Robust V-shaped chassis made of C-profiles (M/TSW 5210 S) or ladder-type frame made of 300 mm rectangular tubing (M/TSW 5210 W).

The **M/TSW 5210 W** features a **mechanical weighing system** (six weigh bars) as standard for even more precise spreading and documentation.

**Automatic chain tensioners**, that are clearly visible from the driver's seat and easy to adjust, ensure reliable operation at all times.

In combination with the VARIO 400 body swap chassis also available as **swap body M/TSW A 16**.

**Operation** of the hydraulic functions:

- tractor's control units (standard)
- e-control light (optional)
- PILOTBOX (optional)
- ISOBUS (optional)

Air brake and ALB regulator for maximum road safety as standard.  
**EU type approval (CoC) as standard;** no country-specific national approvals necessary.

Robust tandem pendulum suspension unit with 1,900 mm track for difficult operating conditions.  
Wide tyres for **low ground disturbance**. Axle cover for **easy cleaning** as standard.  
Follow-up steering and hydraulic or electronic forced steering and lift axle are optionally available.

**One-piece drive train** for superior reliability.  
Transfer case protection through centrally mounted cam clutch (M 5210) or separate protection on the TSW models.

**Hydraulically driven scraper floor on both sides with four chains with 25 t breaking load each** for outstanding reliability and reversing function. **Bolted scraper floor bars** for easy replacement.

**High drawbar** (standard) or **low drawbar** (optional) for even higher driving comfort.  
Mechanical drawbar suspension as standard.







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## Manure/universal spreaders M/TSW 5210 S/W

Tandem | 20,000 – 22,000 kg



**Easy coupling**  
The M/TSW 5210 S/W models feature a height-adjustable, mechanically suspended high drawbar as standard. For even higher driving comfort, a mechanically suspended low drawbar is optionally available. The low hitching point makes starting off at high loads easier. The drawbar's slim design creates a highly manoeuvrable tractor-trailer combination.



Various drawbar eyes are available for coupling. The optional ball coupling offers superior driving comfort at low wear. The hydraulic hoses are stored neatly in the hose cabinet, where they are protected from soiling.



**Convenient parking**  
The Jost jack stand with a tongue load of 10 t and 2-speed gear-box ensures easy coupling and uncoupling of the vehicle with low effort. For increased convenience, a hydraulic jack stand is also available.



**Robust chassis**  
The robust, screwed 4-spring-tandem chassis has a 130 mm square axle and a track width of 1,900 mm. An air brake system with ALB regulator is also standard. A follow-up steering, a hydraulic forced steering and a lift axle are optionally available for this chassis. In combination with the tyres, the chassis ensures comfortable, smooth driving characteristics on both field and road. A large selection of tyres from 550/60-22.5 to 800/45 R26.5 are available.



**Conical all-steel bin**  
The fully welded, conical all-steel bin reliably prevents the material from bulking in front of the spreader unit, ensures constant application rates and reduces the power demand of the scraper floor drive. It has a long service life and offers maximum payload. The sturdy ladder-type frame with axle cover as standard allows the spreader to be quickly and easily cleaned and serviced.



**Exact documentation**  
The standard mechanical weighing system of the M/TSW 5210 W models, consisting of six weigh bars between body and chassis frame allows exact control of the load, total spread mass and application rate. It excels with superior measuring accuracy. The load weight is indicated on a separate weighing terminal or, optionally, via ISOBUS.



### Perfect visibility

The body's front wall features viewing windows, which provide the driver with an unimpeded view of the cargo space (top) and scraper floor (bottom) at all times. The scraper floor can be easily reached for cleaning and maintenance through a removable panel. The standard equipment includes a rockfall screen, which protects the driver from any material that is thrown towards the front.



### Easy maintenance

Maintenance of the scraper floor is made easy by the central lubrication bank fitted as standard equipment with four easily accessible lubrication points in the front area of the vehicle. A further lubrication bank with three lubrication points is located in the rear area of the spreader for maintenance of the rear drive shaft.



### Easy access

An access ladder is fitted on the right side in driving direction to allow checking of the body from above. The access ladder folds away to ensure maximum ground clearance in the field.



### More load volume

The side walls are protected from damage by the scraper guards, which are made of recycled plastic and are fitted as standard. To increase the load volume, side wall extensions with a height of 300, 450 and 750 mm are available. These are always fitted on both sides and are either rigid or hydraulically foldable, depending on the version.



### Robust and low-wear

The scraper floor is made of steel with four robust round-link steel chains (14 x 50 mm each, 25 t breaking load per chain) with scraper floor bars. The bars running on separate wear rails are screwed in, making them easy to replace. They are open towards the underside, so that they convey the material to the spreader unit with a double raking action. For optimum conveying of the material, the bar mounts are angled downwards to ensure that the scraper floor bars are reliably pulled to the floor.



### Reliable and powerful

The chains rest very low in the chain sprockets at the rear. Integrated scrapers at the front and rear reliably prevent chains from skipping.



### Convenient chain tensioning

The automatic tensioning system ensures a constant tension of the scraper floor chains, making for reliable operation and smooth running. The driver has a clear view of the automatic tensioning system with its four tensioning stations, which can be easily adjusted from the outside.



### Powerful drive

The scraper floor is driven hydraulically via the tractor's control units. Infinite adjustment of the scraper floor speed via a flow control valve, e-control light, PILOTBOX or ISOBUS is optionally available. Two large-sized spur gearboxes on the left and right ensure optimum power transmission. For spreading lime or sticky material, we recommend the optional reinforced spur gearbox.





# Manure/universal spreaders M/TSW 6240 S/W

## Features at a glance

### TSW 6240 S/W:

- Milling unit (1,500 mm passage height) with 2 horizontal beaters and chain drive (standard), optional **cardan drive** and 3-beater spreader unit (1,800 mm passage height)
- **Screwed double tines** for finest shredding of the spreading material
- Disk spreader unit with two disks (ø 1,000 mm, thickness 8 mm, 6 spreader blades each) for **exact spreading of all materials**.
- Optional **wide spreading unit V-Spread** for working widths up to 36 m (spreader disks ø 1,100 mm each)

### M 6240 S/W:

- **Hybrid spreader unit 2-Spread** (1,700 mm passage height) with two vertical beaters
- The ideal combination of manure and universal spreader unit, also suitable for lime, compost and other spreading materials.

In combination with the VARIO 440 body swap chassis also available as **swap body M/TSW A 19**.

**Conical all-steel bin** prevents bulking of material in front of the spreader unit and ensures superior reliability, consistent application rates and reduced power demand.

Sturdy ladder-type frame made from 300 mm rectangular tubing.

The **M/TSW 6240 W** features a **mechanical weighing system** (eight weigh bars) as standard for even more precise spreading and documentation.

**Automatic chain tensioners**, that are clearly visible from the driver's seat and easy to adjust, ensure reliable operation at all times.

**Operation** of the hydraulic functions:

- tractor's control units (standard)
- e-control light (optional)
- PILOTBOX (optional)
- ISOBUS (optional)

### VIDEO



**Scraper floor with hydraulic drive on both sides**, with reinforced gearboxes and four chains with 25 t breaking load each for outstanding reliability and reversing function. **Bolted scraper floor bars** for easy replacement.

Spring-actuated air brake and ALB regulator for maximum road safety as standard. **EU type approval (CoC) as standard;** no country-specific national approvals necessary.

Hydraulic tandem chassis, 2,100 mm track and follow-up steering as standard (second axle) for adverse operating conditions and high driving comfort.

Wide tyres for **low ground disturbance**.

Axle cover for **easy cleaning** as standard.

Hydraulic or electronic forced steering and lift axle are optionally available.

**One-piece drive train** for superior reliability. Transfer case protection through centrally mounted cam clutch (M 6240) or separate protection on the TSW models.

**Low drawbar** with mechanical drawbar suspension. For outstanding driving comfort, a hydropneumatic drawbar suspension is optionally available.





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## Manure/universal spreaders M/TSW 6240 S/W

Tandem | 23,000 – 24,000 kg



**Easy coupling**  
The M/TSW 6240 S/W models feature a height-adjustable, mechanically suspended low drawbar as standard for superior driving comfort. The low hitching point makes starting off at high loads easier. The drawbar's slim design creates a highly manoeuvrable tractor-trailer combination.



Various drawbar eyes are available for coupling. The standard ball coupling offers superior driving comfort at minimum wear. The hydraulic hoses are stored neatly in the hose cabinet, where they are protected from soiling.



**Outstanding manoeuvrability**  
For fast, tight turns, e.g. on headlands, an extra small drawbar is available (M/TSW 6240 W). The slim design of the drawbar eye connection enables very small turning radii, especially in combination with a forced steering.



**Convenient parking**  
On the M/TSW 6240 S, the Jost jack stand with a tongue load of 10 t and 2-speed gearbox ensures easy coupling and uncoupling of the vehicle with low effort. For increased convenience, a hydraulic jack stand is also available.



**Maximum ground clearance**  
The M/TSW 6240 W features a hydraulic jack stand that is integrated into the drawbar as standard. With its large support plate, it provides an ideal contact surface, so that the vehicle is stable even on uneven or wet terrain. The jack stand fully retracts into the drawbar to ensure maximum ground clearance in the field.



**Smooth driving**  
The optional hydropneumatic drawbar suspension provides for outstanding driving comfort on both road and field also at high driving speeds. Impacts and vibrations are reliably absorbed. The drawbar suspension works with nitrogen accumulators at the hydraulic cylinders.



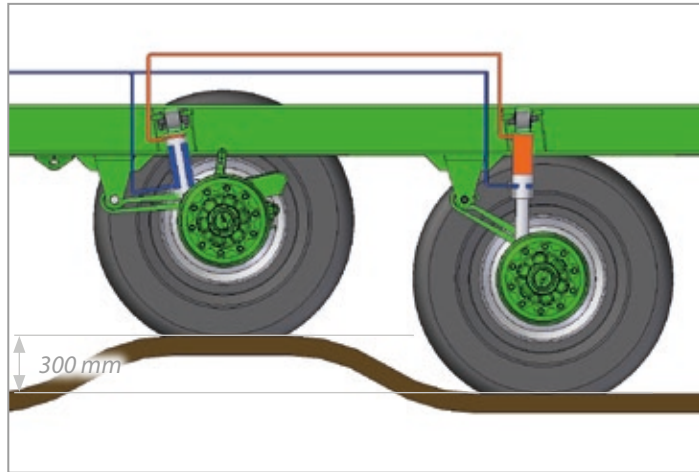
### Robust chassis

The tandem chassis with hydraulic axle compensation and 130 mm square axle provides comfortable, smooth driving characteristics both on the field and on the road. For very heavy loads and adverse operating conditions, reinforced axles with 150 mm square axle and larger brakes are optionally available. The axle centre distance of 1,810 mm provides sufficient space even for large-sized tyres with low ground contact pressure.



### Hydraulic axle compensation

The 300 mm hydraulic axle compensation ensures superior driving characteristics, excellent stability and off-road capability as well as safety both at standstill and while driving. Bumps are reliably compensated, ground contact pressure is significantly reduced and wheel subsidence is minimised. The axle compensation ensures that each axle carries the same load, even on bumpy terrain.



### Follow-up steering

The standard follow-up steering minimises ground disturbance. When the steering axle is unlocked, the wheels adapt when cornering. For driving on roads or inclines and for vehicle manoeuvres, the steering axle can be locked. In combination with the optional ISOBUS operation, the steering axle automatically locks when driving in reverse gear.

### Heavy load connection

Sturdy connection of the axles to the chassis with maintenance-free rubber and metal bearings (silent blocks) in the chassis cylinder. The bearings can absorb both radial and axial forces and provide vibration damping.



### Hydraulic forced steering

For improved driving comfort, a hydraulic forced steering is optionally available. The hydraulic forced steering allows trouble-free reversing as the wheels automatically move into the right position. The cylinders can be effortlessly coupled to the tractor by one person via one (tandem) or two (tridem) K50 ball couplings.

### Lift axle

The front axle is optionally available as a lift axle. This saves costs by reducing tyre wear when driving empty and cutting fuel consumption through lower tyre friction. At overload, the lift axle lowers automatically to protect both trailer and tractor.



### Electronic forced steering

The electronic forced steering ensures fully automatic adaption of the steering intensity to the driving speed. To improve dynamic stability, the steering angle of the steered axles is reduced at higher driving speeds and fully locked at 50 km/h. The compact connection to the tractor provides higher manoeuvrability than with a hydraulic forced steering. The forced steering is operated either via a separate operator terminal or via ISOBUS.



### The right tyre for each scenario

For minimising ground disturbance on fields, high-volume tyres with various tread patterns for wheel sizes from 26.5 to 30.5" are available. With their large diameter, the 30.5" tyres offer optimum rolling and rollover characteristics especially under adverse operating conditions. The largest possible tyres are 800/45 R30.5.



### Angled mudguards

Any material that misses the cargo space during loading slides off the angled mudguard and onto the field, keeping the roads clean after use.

The mudguards are adapted to the tyre size to ensure sufficient tyre coverage.



### Brake system

An air brake system with ALB regulator, which automatically regulates the brake pressure according to the load, and a spring-actuated parking brake are also standard.

The brake cylinder and brake linkage are arranged above the lower edge of the axle. This ensures that they do not reduce the ground clearance and eliminates the risk of mechanical damage from, for example, maize stubble. A hydraulic brake is available for some countries.



### Europe-wide approval

Full EU type approval according to the official regulation is standard. The CoC (Certificate of Conformity) papers are also supplied.

Especially when reselling within the EU, type approval is an advantage, as it removes the need for individual national approvals.



### Conical all-steel bin

The fully welded, conical all-steel bin reliably prevents the material from bulking in front of the spreader unit, ensures constant application rates and reduces the power demand of the scraper floor drive. It has a long service life and offers maximum payload. The sturdy ladder-type frame with axle cover as standard allows the spreader to be quickly and easily cleaned and serviced.



### Exact documentation

The mechanical weighing system, which is standard on the M/TSW 6240 W models, consisting of eight weigh bars between body and chassis frame allows exact control of the load, total spread mass and application rate. It excels with superior measuring accuracy.

The load weight is indicated on a separate weighing terminal or, optionally, via ISOBUS.





### Perfect visibility

The body's front wall features viewing windows, which provide the driver with an unimpeded view of the cargo space (top) and scraper floor (bottom) at all times. The scraper floor can be easily reached for cleaning and maintenance through a removable panel.

The standard equipment includes a rockfall screen, which protects the driver from any material that is thrown towards the front.



### Easy maintenance

Maintenance of the scraper floor is made easy by the central lubrication bank fitted as standard equipment with four easily accessible lubrication points in the front area of the vehicle. A further lubrication bank with three lubrication points is located in the rear area of the spreader for maintenance of the rear drive shaft.



### Easy access

An access ladder is fitted on the right side in driving direction to allow checking of the body from above. The access ladder folds away to ensure maximum ground clearance in the field.



### More load volume

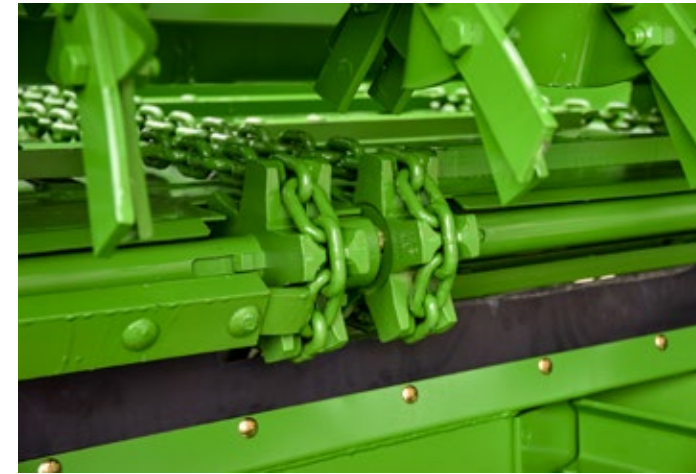
The side walls are protected from damage by the scraper guards, which are made of recycled plastic and are fitted as standard.

To increase the load volume, side wall extensions with a height of 300, 450 and 750 mm are available. These are always fitted on both sides and are either rigid or hydraulically foldable, depending on the version.



### Robust and low-wear

The scraper floor is made of steel with four robust round-link steel chains (14 x 50 mm each, 25 t breaking load per chain) with scraper floor bars. The bars running on separate wear rails are screwed in, making them easy to replace. They are open towards the underside, so that they convey the material to the spreader unit with a double raking action. For optimum conveying of the material, the bar mounts are angled downwards to ensure that the scraper floor bars are reliably pulled to the floor.



### Reliable and powerful

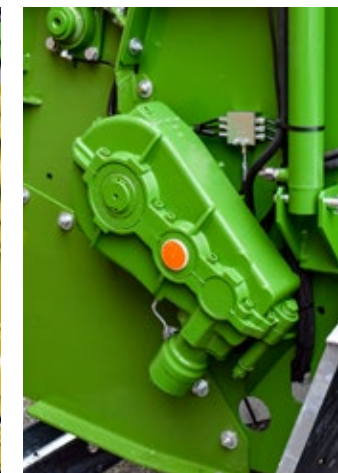
The chains rest very low in the chain sprockets at the rear. Integrated scrapers at the front and rear reliably prevent chains from skipping.



### Convenient chain tensioning

The automatic tensioning system ensures a constant tension of the scraper floor chains, making for reliable operation and smooth running.

The driver has a clear view of the automatic tensioning system with its four tensioning stations, which can be easily adjusted from the outside.



### Powerful drive

The scraper floor is driven hydraulically via the tractor's control units. Infinite adjustment of the scraper floor speed via a flow control valve, e-control light, PILOTBOX or ISOBUS is optionally available.

Two large-sized, reinforced spur gearboxes on the left and right ensure optimum power transmission.



# Manure/universal spreaders M/TSW 7340 S

## Features at a glance

### Operation of the hydraulic functions:

- tractor's control units (standard)
- e-control light (optional)
- PILOTBOX (optional)
- ISOBUS (optional)

### Automatic chain tensioners, that are

clearly visible from the driver's seat and easy to adjust, ensure reliable operation at all times.

**Conical all-steel bin** prevents bulking of material in front of the spreader unit and ensures superior reliability, consistent application rates and reduced power demand.

Sturdy ladder-type frame made from 300 mm rectangular tubing.

In combination with VARIOSIX body swap chassis also available as **swap body M/TSW A 21**.

### TSW 7340 S:

- Milling unit (1,500 mm passage height) with two horizontal beaters and chain drive (standard), optional **cardan drive** and 3-beater spreader unit (1,800 mm passage height)
- **Screwed double tines** for finest shredding of the spreading material
- Disk spreader unit with two disks (ø 1,000 mm, thickness 8 mm, six spreader blades each) for exact spreading of all materials
- Optional **wide spreading unit V-Spread** for working widths up to 36 m (spreader disks ø 1,100 mm each)

### M 7340 S:

- **Hybrid spreader unit 2-Spread** (1,700 mm passage height) with two vertical beaters
- The ideal combination of manure and universal spreader unit, also suitable for lime, compost and other spreading materials

**Low drawbar** with mechanical drawbar suspension. For outstanding driving comfort, a hydropneumatic drawbar suspension is optionally available.

**Scraper floor with hydraulic drive on both sides**, with reinforced gearboxes and four chains with 25 t breaking load each for outstanding reliability and reversing function.  
**Bolted scraper floor bars** for easy replacement.

**One-piece drive train** for superior reliability. Transfer case protection through centrally mounted cam clutch (M 7340) or separate protection on the TSW models.

Hydraulic tridem chassis, 2,100 mm track and follow-up steering as standard (first and third axle) for adverse operating conditions and high driving comfort.

Wide tyres for **low ground disturbance**.

Axle cover for **easy cleaning** as standard. Hydraulic or electronic forced steering and lift axle are optionally available.

Spring-actuated air brake and ALB regulator for maximum road safety as standard. **EU type approval (CoC) as standard**; no country-specific national approvals necessary.





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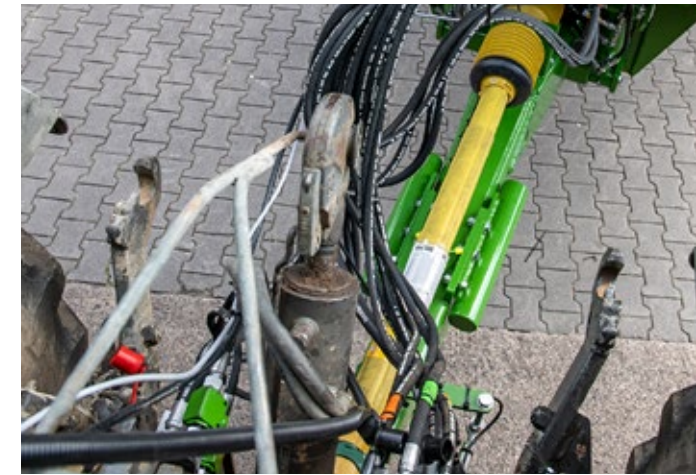
## Manure/universal spreaders M/TSW 7340 S

Tridem | 33,000 – 34,000 kg

### Easy coupling

For high driving comfort, the M/TSW 7340 S models feature a height-adjustable, mechanically suspended low drawbar as standard. The low hitching point makes starting off at high loads easier. The drawbar's slim design creates a highly manoeuvrable tractor-trailer combination.

Various drawbar eyes are available for coupling. The standard ball coupling offers superior driving comfort at minimum wear. The hydraulic hoses are stored neatly in the hose cabinet, where they are protected from soiling.



### Outstanding manoeuvrability

For fast, tight turns, e.g. on headlands, an extra small drawbar is available. The slim design of the drawbar eye connection enables very small turning radii, especially in combination with a forced steering.



### Convenient parking, maximum ground clearance

To hitch and unhitch, the drawbar height is simply adjusted with the standard hydraulic jack stand. With its large support plate, it provides an ideal contact surface, so that the vehicle is stable even on uneven or wet terrain. The jack stand fully retracts into the drawbar to ensure maximum ground clearance in the field.



### Superior driving comfort

The standard mechanical drawbar suspension provides superior driving comfort. Spacers are used to optimise the drawbar height for each tractor.



### Smooth driving

The optional hydropneumatic drawbar suspension provides for outstanding driving comfort on both road and field also at high driving speeds. Impacts and vibrations are reliably absorbed. The drawbar suspension works with nitrogen accumulators at the hydraulic cylinders.



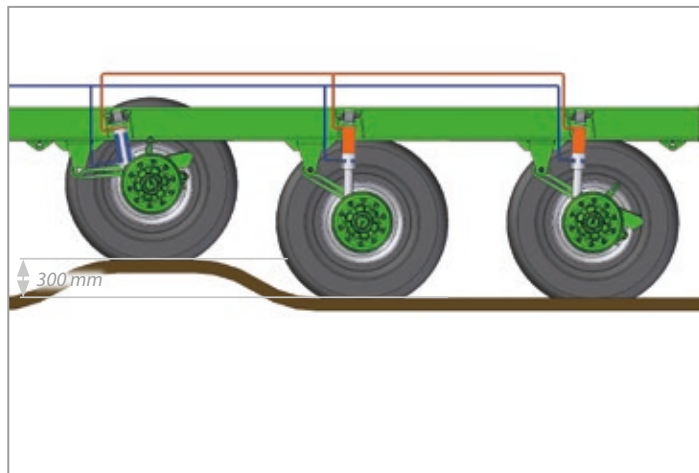
### Robust chassis

The tridem chassis with hydraulic axle compensation and 130 mm square axle provides comfortable, smooth driving characteristics both on the field and on the road. For very heavy loads and adverse operating conditions, reinforced axles with 150 mm square axle and larger brakes are optionally available. The axle centre distance of 1,810 mm provides sufficient space even for large-sized tyres with low ground contact pressure.



### Hydraulic axle compensation

The 300 mm hydraulic axle compensation ensures superior driving characteristics, excellent stability and off-road capability as well as safety both at standstill and while driving. Bumps are reliably compensated, ground contact pressure is significantly reduced and wheel subsidence is minimised. The axle compensation ensures that each axle carries the same load, even on bumpy terrain.



### Heavy load connection

Sturdy connection of the axles to the chassis with maintenance-free rubber and metal bearings (silent blocks) in the chassis cylinder. The bearings can absorb both radial and axial forces and provide vibration damping.



### Lift axle

The front axle is optionally available as a lift axle. This saves costs by reducing tyre wear when driving empty and cutting fuel consumption through lower tyre friction.

At overload, the lift axle lowers automatically to protect both trailer and tractor.



### Follow-up steering

The standard follow-up steering minimises ground disturbance. When the steering axles are unlocked, the wheels adapt when cornering. For driving on roads or inclines and for vehicle manoeuvres, the steering axle can be locked.

In combination with the optional ISOBUS operation, the steering axle automatically locks when driving in reverse gear.



### Hydraulic forced steering

For improved driving comfort and reduced tyre wear, a hydraulic forced steering is optionally available.



### Electronic forced steering

The electronic forced steering ensures fully automatic adaption of the steering intensity to the driving speed. To improve dynamic stability, the steering angle of the steered axles is reduced at higher driving speeds and fully locked at 50 km/h. The compact connection to the tractor provides higher manoeuvrability than with a hydraulic forced steering.

The forced steering is operated either via a separate operator terminal or via ISOBUS.



### The right tyre for each scenario

For minimising ground disturbance on fields, high-volume tyres with various tread patterns for wheel sizes from 26.5 to 30.5" are available. With their large diameter, the 30.5" tyres offer optimum rolling and rollover characteristics especially under adverse operating conditions. The largest possible tyres are 800/45 R30.5.



### Angled mudguards

Any material that misses the cargo space during loading slides off the angled mudguard and onto the field, keeping the roads clean after use.

The mudguards are adapted to the tyre size to ensure sufficient tyre coverage.



### Conical all-steel bin

The fully welded, conical all-steel bin reliably prevents the material from bulking in front of the spreader unit, ensures constant application rates and reduces the power demand of the scraper floor drive. It has a long service life and offers maximum payload. The sturdy ladder-type frame with full axle cover as standard allows the spreader to be quickly and easily cleaned and serviced.

### Brake system

An air brake system with ALB regulator, which automatically regulates the brake pressure according to the load, and a spring-actuated parking brake are also standard. The brake cylinder and brake linkage are arranged above the lower edge of the axle. This ensures that they do not reduce the ground clearance and eliminates the risk of mechanical damage from, for example, maize stubble. A hydraulic brake is available for some countries.



### Flexible utilisation

The 7340 models are equipped with twist locks as standard. This allows the chassis to also be used for other bodies, for example a forage body.

### Europe-wide approval

Full EU type approval according to the official regulation is standard. The CoC (Certificate of Conformity) papers are also supplied.

Especially when reselling within the EU, type approval is an advantage, as it removes the need for individual national approvals.



### Exact documentation

For exact control of the load, total spread mass and application rate, a hydraulic or mechanical weighing system is optionally available.

The hydraulic weighing system records the readings from highly accurate pressure sensors in the chassis hydraulics and the measuring drawbar eye.

The mechanical weighing system consists of ten weigh bars between body and chassis frame and excels through its superior accuracy.

The load weight is indicated on a separate weighing terminal or, optionally, via ISOBUS.



### Perfect visibility

The body's front wall features viewing windows, which provide the driver with an unimpeded view of the cargo space (top) and scraper floor (bottom) at all times. The scraper floor can be easily reached for cleaning and maintenance through a removable panel. The standard equipment includes a rockfall screen, which protects the driver from any material that is thrown towards the front.



### Easy maintenance

Maintenance of the scraper floor is made easy by the central lubrication bank fitted as standard equipment with four easily accessible lubrication points in the front area of the vehicle. A further lubrication bank with three lubrication points is located in the rear area of the spreader for maintenance of the rear drive shaft.



### Easy access

An access ladder is fitted on the right side in driving direction to allow checking of the body from above. The access ladder folds away to ensure maximum ground clearance in the field.



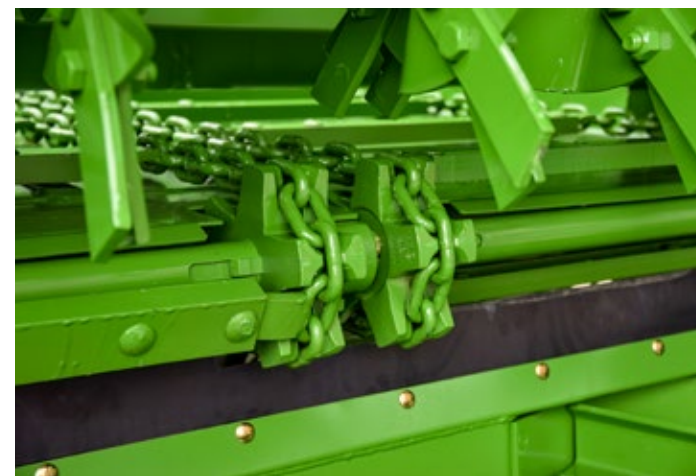
### More load volume

The side walls are protected from damage by the scraper guards, which are made of recycled plastic and are fitted as standard. To increase the load volume, side wall extensions with a height of 300, 450 and 750 mm are available. These are always fitted on both sides and are either rigid or hydraulically foldable, depending on the version.



### Robust and low-wear

The scraper floor is made of steel with four robust round-link steel chains (14 x 50 mm each, 25 t breaking load per chain) with scraper floor bars. The bars running on separate wear rails are screwed in, making them easy to replace. They are open towards the underside, so that they convey the material to the spreader unit with a double raking action. For optimum conveying of the material, the bar mounts are angled downwards to ensure that the scraper floor bars are reliably pulled to the floor.



### Reliable and powerful

The chains rest very low in the chain sprockets at the rear. Integrated scrapers at the front and rear reliably prevent chains from skipping.



### Convenient chain tensioning

The automatic tensioning system ensures a constant tension of the scraper floor chains, providing reliable operation and smooth running. The driver has a clear view of the automatic tensioning system with its four tensioning stations, which can be easily adjusted from the outside.



### Powerful drive

The scraper floor is driven hydraulically via the tractor's control units. Infinite adjustment of the scraper floor speed via a flow control valve, e-control light, PILOTBOX or ISOBUS is optionally available. Two large-sized, reinforced spur gearboxes on the left and right ensure optimum power transmission.



**Optimised dosing**

Models M/TSW 5210 S/W, 6240 S/W and 7340 S feature a hydraulically adjustable dosing wall with a passage height of 1,700 mm (M models) or 1,500 mm (TSW models) as standard. With the optional 3-beater spreader unit, a dosing wall with a passage height of 1,800 mm is available for the five TSW models. In combination with the scraper floor speed, the dosing wall opening height controls the material spreading rate.



**Clearly visible**

The exact position of the dosing wall can be conveniently checked on the mechanical height indicator with its large scale on the spreader's front wall.



**User-friendly operation**

The dosing wall of the TSW models in combination with ISOBUS operation is optionally available with a position sensor. The dosing wall height is displayed on the operator terminal. The dosing wall can also be automatically opened to a preset opening height at the press of a button.



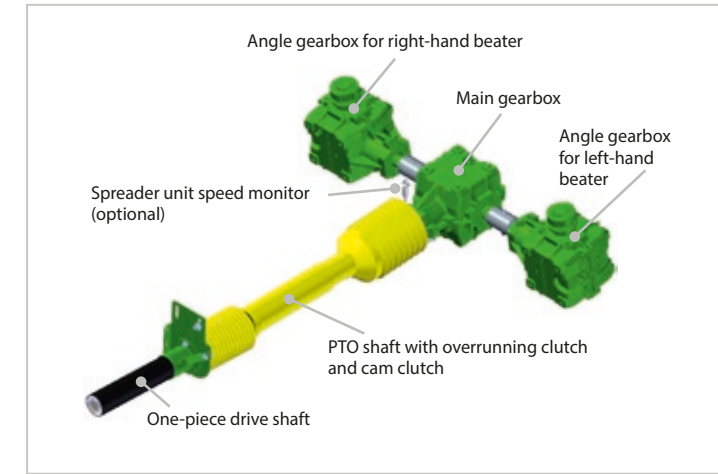
**Low-maintenance drive train**

The one-piece drive train has a high load capacity and is fitted without spring pins or similar. This makes it very low maintenance.



**SPREADER UNITS OF THE MANURE SPREADERS**

Manure spreaders M 5210 S/W, M 6240 S/W, M 7340 S



**Hybrid spreader unit 2-Spread**

The 2-Spread spreader unit with two vertical beaters is the ideal combination of manure and universal spreader unit. In addition to solid manure, it can also be used for spreading lime, compost and other materials with working widths of up to 18 m. It has a lower power demand than a universal spreader, and the throughput is up to 100 % higher. This makes 2-Spread more efficient than conventional manure spreaders with vertical beaters. The spreading quality is equal to that of a standard disk spreader unit. 2-Spread achieved top marks in the DLG test and was awarded the "DLG Anerkannt" (DLG Approved) quality seal.

**Robust drive**

The drive of the 2-Spread spreader unit features robust gearboxes for a long service life. An overrunning clutch and a cam clutch before the main gearbox ensure reliable operation.



**Outstanding throughput rates**

The 2-Spread hybrid spreader unit of the M 5210 S/W to M 7340 S models is fitted with two vertical beaters (ø 1,050 mm) and connected spreader disks (ø 1,050 mm, each with three adjustable spreader blades). It has a passage height of 1,700 mm for exceptionally high throughputs. For optimum shredding and spreading of the material, screwed in spreader blades and flat-steel tines are alternately arranged on the beaters.



VIDEO





# SPREADER UNITS OF THE UNIVERSAL SPREADERS

Universal spreaders TSW 5210 S/W, TSW 6240 S/W, TSW 7340 S



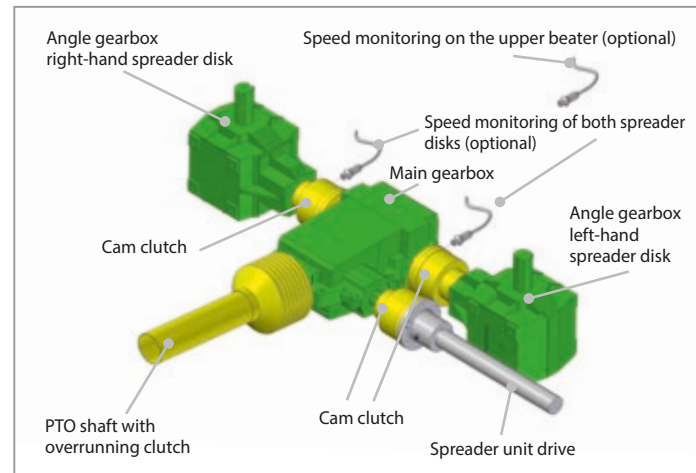
## Ideal power transmission

As standard, the milling beaters are driven via roller chains. Spring-loaded chain tensioners ensure perfect power transmission and low wear. To simplify chain drive maintenance, an automatic drive chain lubrication system is optionally available.

## Long service life

The drive of the T-Spread and V-Spread universal spreader units features large-sized gearboxes for a long service life. An overrunning clutch before the main gearbox and cam clutches before the disk gearboxes and the milling unit drive ensure reliable operation.

For added safety, speed monitoring in front of the disk gearboxes and on the upper beater is optionally available.



## Quiet operation, minimum maintenance

Optionally, the cardan drive can be selected for driving the milling beaters.

The advantages of the cardan drive are its quiet operation, minimum maintenance requirements as well as substantial cost savings due to its longer service life.

The cardan drive is required for the V-Spread wide spreading unit.

## Perfect shredding

The milling unit of the TSW 5210 to 7340 models features two horizontal beaters as standard and has a passage height of 1,500 mm. For efficient shredding, the milling beaters are equipped with double tines in a V-arrangement. These are screw-fitted for easy replacement. For a better material flow, the tine beams are inclined between the tines. This also reduces power demand.



## Outstanding throughput rates

For the TSW 5210 to 7340 models, a milling unit with three horizontal beaters and a passage height of 1,800 mm is optionally available. This is used for high throughput rates and on machines fitted with 750 mm high side wall extensions.



## Exact setting

To prevent damage to the spreader hood, it is fully lined with strong PE panels as standard.

The lower part of the spreader hood – the lower tailgate – can be adjusted in passage height and inclination. This allows the material feed point on the spreader disks to be ideally positioned over the disks for precise spreading of different materials under varying

conditions. A spring-loaded auto-reset system provides protection against foreign objects. By default, the passage height is adjusted via a centrally positioned threaded rod. In combination with ISOBUS operation, the passage height of the lower tailgate can be hydraulically controlled and monitored using the ISOBUS terminal. The opening height is indicated on the operator terminal.





**Standard universal spreader unit**

The standard universal spreader unit with two horizontal milling beaters and disk spreader unit is ideal for spreading different materials with working widths of up to 24 m. The material is finely shredded by the milling beaters and evenly fed to the spreader disks for a perfect spreading pattern.



**Wide spreading unit V-Spread**

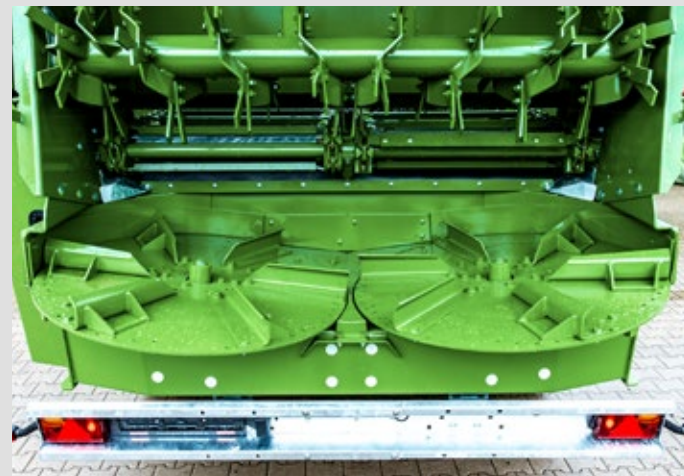
The innovative, patented V-Spread wide spreading unit is optionally available for the TSW models. With two horizontal milling beaters and disk spreader unit with spreader disks arranged in a V-pattern, it is ideal for spreading various materials at working widths of up to 36 m (depending on the material).

The material is finely shredded by the milling beaters and evenly fed to the spreader disks for a perfect spreading pattern. V-Spread achieved top marks in the DLG test and was awarded the "DLG Anerkannt" (DLG Approved) quality seal.



**Superior spreading quality**

The standard disk spreader unit of the TSW models features two spreader disks (each with ø 1,000 mm and six adjustable spreader blades). It features Hardox-grade spreader blades and guide plates as standard – specifically for materials that cause rapid wear.



**Maximum working width**

The V-Spread wide spreading unit is equipped with a disk spreader unit with two spreader disks arranged in a V-shape (each ø 1,100 mm and with six adjustable spreader blades). It features Hardox-grade spreader blades and guide plates as standard – specifically for materials that cause rapid wear. The greater working width reduces the number of passages required for a given area, thereby reducing ground compaction. The use of tram lines is also possible at more than 24 m. Throughput is higher compared to standard spreader units.



**Accuracy at the field edge**

Three versions of the hydraulically operated spread pattern limiter are optionally available for the TSW models: left side only, right side only, and on both sides. The spread pattern limiter allows precise spreading at the field edges and even fertilisation all the way to the field edge. It also prevents soiling and contamination of roads, paths and waterways.



**Enhanced operator convenience**

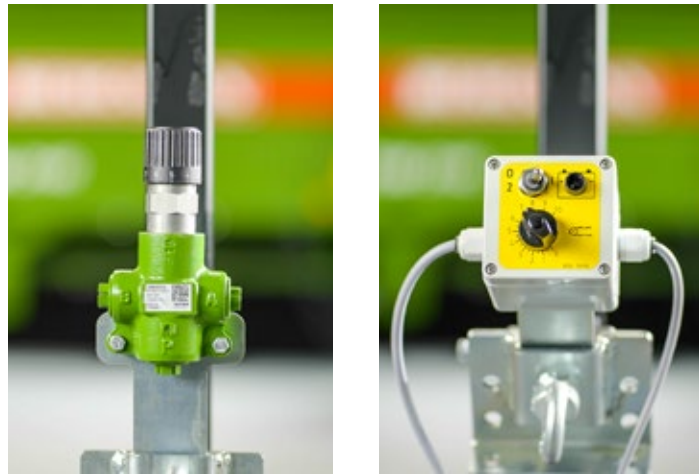
An optionally available sensor detects whether the spread pattern limiter has been activated or deactivated. When the spread pattern limiter is lowered, the scraper floor speed is automatically reduced to maintain a constant application rate at the reduced working width. This function is available only in combination with ISOBUS operation.





**Operation via control units**

As standard, the hydraulic functions are operated via the control units of the tractor. An option for adjusting the scraper floor speed via the manually adjustable flow control valve or the electronic e-control light unit is available.



**Operation via PILOTBOX**

The optional PILOTBOX allows easy operation of the hydraulic functions. The operator controls are arranged clearly and ergonomically and each control has a specific function. The number of functions that can be controlled depends on the equipment. On the tractor, only a single-acting control unit and an unpressurised return are required. Load sensing is optionally available.



**ISOBUS terminal CCI 50**

The CCI 50 ISOBUS terminal with 5.6" touch screen, 12 function buttons and a scroll wheel can be used with all machine makes. This terminal can be expanded with a Task-Controller for order management and documentation as well as the automatic Section Control.



**ISOBUS terminal CCI 800**

With its large 8" display, the CCI 800 allows the operator to fully focus on the task at hand. Multi touch in combination with the innovative menu navigation makes it as easy to operate as a smartphone. Functions such as Task-Controller and Section Control can be integrated. A connection to the agrirouter is also possible. For even more convenience, camera images can be displayed in addition to the user interface.

**ISOBUS comfort operation**

Superior user friendliness and high ease of use with optional ISOBUS operation. Even inexperienced drivers will have no problem operating the intuitive user interface with the self-explanatory graphics and icons. A load counter and the speed monitor are included as standard in the ISOBUS software. Thanks to the AEF-certified software, the vehicle can be operated via any ISOBUS terminal. A tractor with its own ISOBUS-compatible terminal does not require an additional terminal in the cab. This means that the driver has a clear all-round view, which improves road safety and provides a better overview on the field.

Also optionally available are additional AUX-N control devices, such as the CCI A3 multi-function lever and a connection to the TC Task-Controller (operating status, documentation, selective spreading (VRC), Section Control (SC), etc.). On the tractor, only a single-acting control unit and an unpressurised return are required. Load sensing is optionally available.



**ISOBUS terminal CCI 1200**

The CCI 1200 is an ISOBUS terminal with 12.1" display and intuitive multi-touch operation on smartphone level. The large terminal offers plenty of space for the simultaneous view of several apps. It also allows two ISOBUS-capable machines to be displayed and operated at the same time. Apps for automatic section control and variable spreading ensure a precise application. In addition, the CCI 1200 is "ready for agrirouter" and can be used for all machine makes.





**Exact application rates**

The ExaRate weighing compensation system is integrated in the ISOBUS software and continually monitors the weight reduction during spreading and compares it to the specified application rate (t/ha). The actual application rate is automatically adjusted to the specified application rate. This makes the organic fertiliser go even further, supplying the soil with just the right amount of nutrients for a higher crop yield.



**Counting made easy**

For documentation on machines without ISOBUS equipment, the optional load counter counts the spread loads and displays them at the press of a button.



**Reliable lubrication**

The optional central lubrication system automatically lubricates all connected lubrication points at the set intervals. This significantly reduces periodic maintenance times for the user.

**Selective cultivation**

Selective cultivation (Variable Rate Control, or VRC) at non-homogeneous soil conditions is possible through the use of application maps in the ISO XML or Shape format in combination with the BERGMANN control system. This allows, for example, fertiliser to be applied as needed, thereby maximising yields and minimising costs.

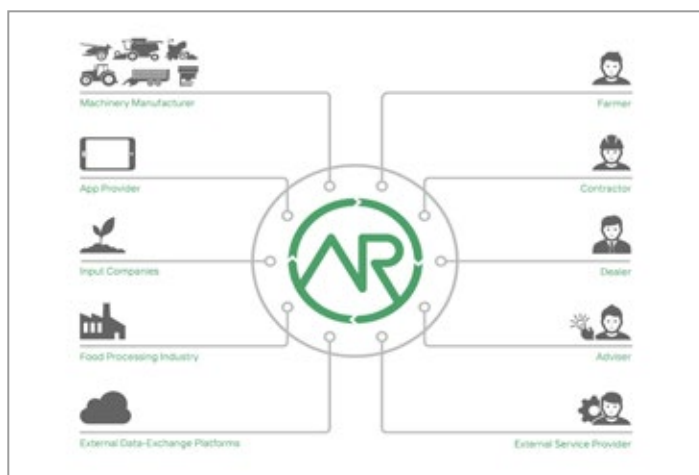


**Minimum ground disturbance**

To minimise ground disturbance, BERGMANN offers a range of optional tyre pressure control systems. One- and two-line systems with compressors for various air ratings are available. Depending on the system, its control is analogue, digital or from the ISOBUS terminal.

**Easy data exchange**

The agrirouter is a neutral, generic web-based platform for data exchange between machines and agricultural software. Machine, GPS and order data can, for example, be saved in ISO XML format and conveniently transferred from the terminal via the agrirouter to the farm's agricultural software. The agricultural software can also send data such as application maps to the vehicle.



**Everything in sight**

The optional cameras at the rear of the vehicle and at the front wall ensure a better overview for enhanced convenience. The video system provides the driver with a clear view on all relevant areas. The camera images can either be shown on a separate monitor or on the ISOBUS terminals CCI 800 and CCI 1200.





### Good visibility

In addition to the required lighting, further lighting options, such as LED working lights at the front wall or on the spreader hood are available for increased safety and convenience.



### Spreader bodies

Models M/TSW 5210, 6240 and 7340 are also available as swap bodies M/TSW A 16, A 19 and A 21. When not in use, the bodies are placed on jack stands. Depending on the chassis, forage and beet transfer bodies can also be used.



### Chassis

For the swap bodies, the three chassis VARIO 400, VARIO 440 (both tandem) and VARIOSIX (tridem) with vehicle gross weights of 20,000 to 34,000 kg are available. The VARIO 440 and VARIOSIX chassis have full EU type approval according to the official regulation. The CoC (Certificate of Conformity) papers are also supplied.



## Technical data

		M 5210 S	M 5210 W	M 6240 S	M 6240 W	M 7340 S
Chassis		Tandem	Tandem	Tandem	Tandem	Tridem
Gross vehicle weight	kg	20,000 – 22,000	20,000 – 22,000	23,000 – 24,000	23,000 – 24,000	33,000 – 34,000
Dead weight*	kg	7,310	8,100	8,940	9,300	11,160
Load*	kg	12,690 – 14,690	11900 -13900	13,060 – 15,060	12,700 – 14,700	20,840 – 22,840
<b>Bridge dimensions</b>						
Length	mm	5,900		6,900		7,900
Width	mm	2,050				
Height	mm	1,320				
<b>Vehicle dimensions</b>						
Length	mm	8,530		9,740	9,680	10,680
Width without tyres	mm	2,500				
Height*	mm	3,885**	3,945**	3,950**	3,970**	3,950**
Transfer height*	mm	3,000**	3,060**	3,065**	3,085**	3,065**
Load volume*	m <sup>3</sup>	17		19.7		23
Power demand	kW / HP	103 – 184 / 140 – 250		118 – 221 / 160 – 300		147 – 294 / 200 – 400

### Universal spreaders

		TSW 5210 S	TSW 5210 W	TSW 6240 S	TSW 6240 W	M 7340 S
Chassis		Tandem	Tandem	Tandem	Tandem	Tridem
Gross vehicle weight	kg	20,000 – 22,000	20,000 – 22,000	23,000 – 24,000	23,000 – 24,000	33,000 – 34,000
Dead weight*	kg	7,310	8,100	8,940	9,300	11,160
Load*	kg	12,690 – 14,690	11900 -13900	13,060 – 15,060	12,700 – 14,700	20,840 – 22,840
<b>Bridge dimensions</b>						
Length	mm	5,900		6,900		7,900
Width	mm	2,050				
Height	mm	1,320				
<b>Vehicle dimensions</b>						
Length	mm	8,430		9,640	9,580	10,580
Width without tyres	mm	2,550				
Height*	mm	3,670**	3,735**			
Transfer height*	mm	3,000**	3,060**	3,065**	3,085**	3,065**
Load volume*	m <sup>3</sup>	17		19.7		23
Power demand	kW / HP	103 – 184 / 140 – 250		118 – 221 / 160 – 300		147 – 294 / 200 – 400

\* depending on equipment

\*\* with reference wheel 710/50 R 26.5 BKT

### Optional:

- Lift axle (from M/TSW 5210)
- Side wall extensions
- Spreader unit cardan drive (TSW)
- Speed monitor
- Spread pattern limiter (TSW)
- ISOBUS operation

- Central lubrication system
- LED working lights
- Various lighting possibilities
- Various tyre options
- Weighing system (single axle, W models)
- Tyre pressure control system (from M/TSW 5210)
- Camera system

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
- ▶ Loader Wagons
- ▶ Forage Transport Trailers
- ▶ Body Swap System
- ▶ Grain Transfer Trailers
- ▶ Beet Transfer Trailers
- ▶ Self-propelled Systems

# BERGMANN

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