

- > STEEL TANKERS
- > POLYESTER TANKERS
- > SPREADING EQUIPMENT



WASTE WATER TREATMENT

SLURRY TANKERS

LONG SERVICE LIFE – HIGH VALUE STABILITY





TECHNOLOGY IN HARMONY WITH NATURE



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ORIGINAL BAUER TECHNOLOGY

**BAUER – Professional technology
for tomorrow and the finest in
spreading equipment.**

The BAUER Group – Your synergistic advantage

By performing a large portion of the design and production in-house, BAUER can offer tanker components that go together perfectly. In-house manufacturing of the components at our factories therefore ensures top quality.

OUR PHILOSOPHY – EVERYTHING FROM A SINGLE SOURCE

BAUER has been successfully involved with slurry technology since 1930. Whether plastic, galvanized steel or special tank, whether in agriculture or for spreading biogas digestate, whether for contractors or professional farms, BAUER always has an economical solution on hand.

Slurry tankers in many dimensions

The slurry tanker needed by a mountain farmer differs significantly from the one needed by an agricultural contractor not only in terms of geography but also spreading volume. This is why BAUER offers slurry tankers adapted to every use and type of operation.

▪ **Premium tankers**

Farmers care most about manageable and robust technology that can improve the cost-benefit calculation for their livestock while ensuring proper slurry spreading.

▪ **Professional steel tankers**

On the other hand, biogas operations and agricultural contractors are faced with high spreading volumes, leading them to also focus on features such as large tank volume, powerful pumps and opportunities for attaching hose applicators and injector systems.

▪ **Professional polyester tankers**

Hydraulic suspensions or combined brake systems are also optionally available.

BAUER – Quality is adaptable

The quality and design come from BAUER, the specific requirements come from you. Together, this makes for effective machinery. We work with you to define your requirements, and on this basis we manufacture a slurry tanker customized for your operational needs in the available sizes from 2,100 to 26,000 liters.



BAUER
main plant in Austria



ECKART plant in Germany



BSA plant in Germany

DEVELOPMENT AND DESIGN

Experienced designers develop new components and equipment on the basis of proven technology. BAUER slurry tankers are designed fully in 3D on CAD design workstations, ensuring that replacement parts will still be available for many years. Field testing and load testing prove the worthiness of every prototype for series production. Your trust is based in our experience.



STEEL TANKERS

Original BAUER technology – Everything from a single source

Farmers are interested in manageable and long-lasting technology that can improve the cost-benefit calculation for their livestock while ensuring proper slurry spreading. For decades, BAUER slurry tankers have guaranteed long service life and value retention.

Reliability and models adapted to the geographic conditions for their use are the features that lend BAUER slurry tankers their familiar image.

The main advantage:

- In-house tank construction
- Steel tank construction in bead welding process
- Special laser-manufactured tanker components





STEEL TANKERS



DESIGN OF THE STEEL TANK

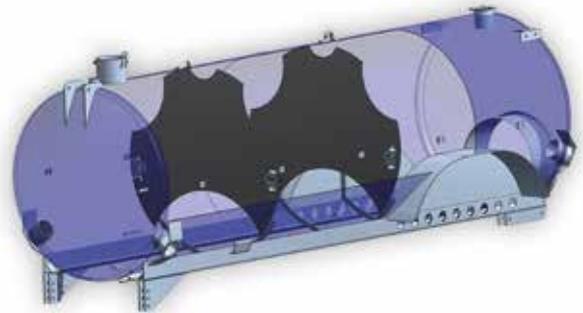
Processing

The tanks are rolled from certified premium sheet steel on our own production line and the seam is then welded by machine.



Baffle plates according to DIN

For larger tank volumes, one or more baffle plates improve the driving safety. Baffle plates are standard features on model V55 and up.



Manhole cover

As of a tank dimension of 1,400 mm, a manhole is added on single-axle vacuum and combi tankers. This makes it easier to open the tank for maintenance work. On pump and tandem tankers, a cleaning cover is available. In connection with close to the ground spreading technology a flat manhole for optimal centre of gravity and close cultivation is integrated.

Tank volume

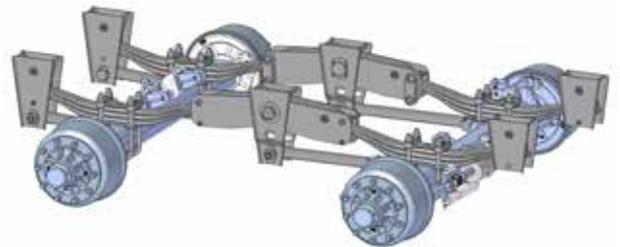
Wheel cutouts (A) or wheel arches (B) reduce the volume – but not with BAUER. Thanks to in-house tank manufacturing, the tank length is expanded almost back to its rated volume. Wheel cutouts or arches can be employed to keep the axle track short.





AXLE SUSPENSIONS

The tandem series of steel tankers is equipped with the proven 4-spring tandem suspension. Robustly mounted parabolic springs in connection with the compensating rocker – and on large models, the additional longitudinal stabilizers – offer safe driving properties and high load capacity.



GALVANIZATION AND COATING

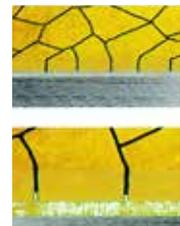
Galvanization

All BAUER steel tankers are hot-galvanized inside and out. The quality standard according to DIN EN ISO 1461 ensures lasting corrosion protection. The quality of steel sheet used by BAUER enables optimal zinc bonding and an attractive sheen.



DUPLEX coating

The BAUER DUPLEX coating is applied to the zinc surface. The special feature of the DUPLEX coating is that paint cracks are cathodically “repaired” and protected due to interaction with the zinc. This means that the paint crack is closed by zinc corrosion and does not migrate beneath the coating (subsurface corrosion).



DUPLEX coating



Standard paintwork

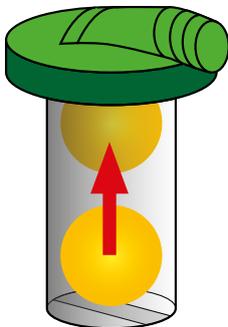


STEEL TANKER VACUUM



Safety for compressor and tank

A safety valve on the compressor prevents excessive pressure in the tank. The spring-loaded dome lid provides a second layer of protection. The dome valve and siphon have ball valves as double security to prevent slurry from entering the compressor.



Coordinated compressor sizes

In all vacuum tanker sizes, the high-quality compressors used are optimally matched to the tank volume and ensure the maximum vacuum achievable for effective suction.

The legendary BAUER compressors B33, B63 & B83 “made in Austria” guarantee quiet operation, low environmental impact, low oil consumption and long service life. This is realized with a low-speed motor – by means of the rotor speed and special forced lubrication by an oil pump – during both vacuum and pressurized operation.



Model	Max. input speed (rpm)	Theoretical air flow (l/min.)	Max. vacuum (bar)	Max. operating pressure (bar)	Weight (kg)
BAUER B33	540	5.300	-0,86	1	95
BAUER B63	540	7.100	-0,90	1	146
BAUER B83	540	8.200	-0,95	1	146
B-P Star 60	600	10.680	-0,95	1	204
B-P Star 72	600	11.870	-0,95	1	228
B-P Star 84	600	14.420	-0,95	1	263

Automatic, speed-based blade lubrication in all compressors

Silencer/air filter

An optional silencer/air filter filters dust during discharge and reduces the noise during the suction process



Extra dome for vacuum tankers

Extra dome for vacuum tankers for external filling from above



Extra dome 320 mm diameter, mechanical



Extra dome 450 mm diameter, hydraulic double-action

Support load optimization – SLE-system

- Optimal support load even with low tanker volume
- Insensitive to clogging
- No mechanical components due to 2-chamber-system
- 2 filling level indicators



STEEL TANKER ACCESSORIES

Turbo filler – the highly effective filling aid

The normal suction process is improved tremendously with the flow-optimized cast pump housings from the BAUER pump portfolio with high-speed, foreign-body-resistant impeller. The compressor can be operated at lower speed. This fills the vacuum tanker practically to the brim and shortens the filling time.



Pneumatic agitator

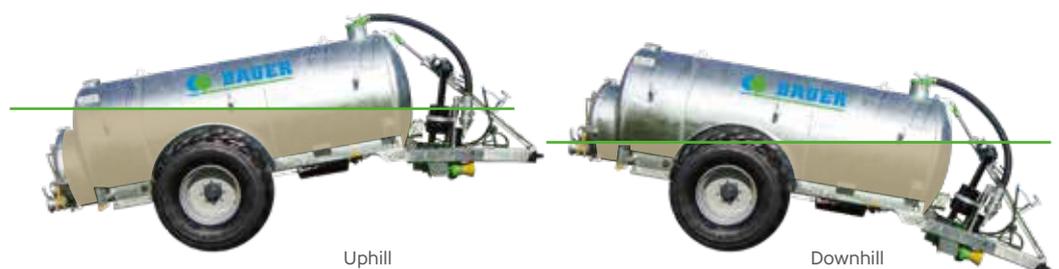
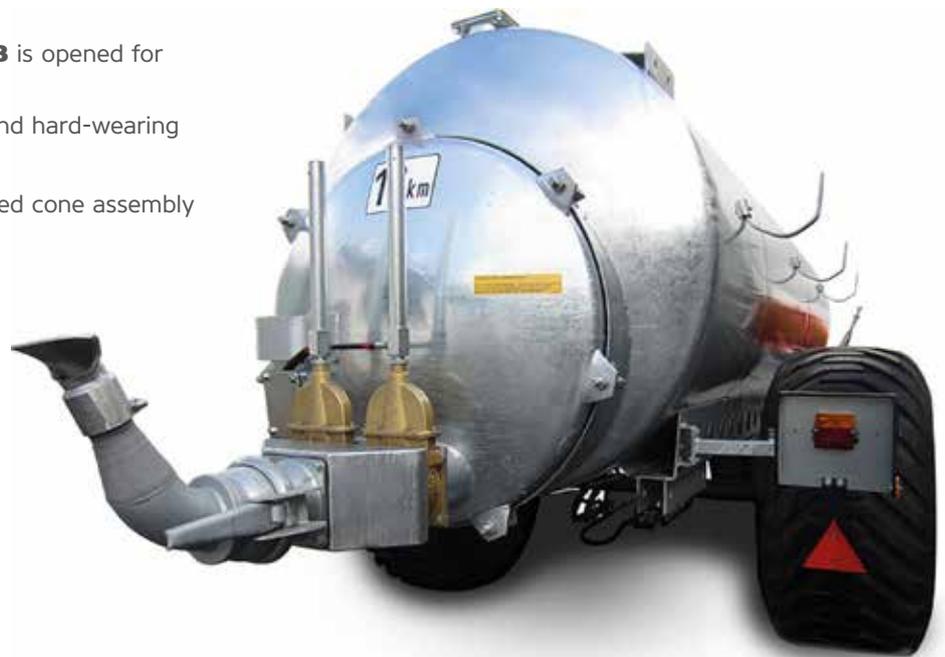
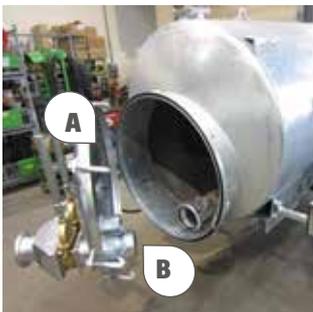
Air flowing in through sleeves stirs the slurry in this area. Check valves protect the compressor.

Tankers with compressor size B33 to B83 are equipped with a stirring tube. As of compressor type Star, two stirring tubes are installed.



Classic downhill spreading

- Two hydraulic spreading valves – valve **B** is opened for downhill orientation, valve **A** for uphill
- No mechanically moving parts, robust and hard-wearing
- No influencing of the spreading angle
- Perfect flow guidance thanks to optimized cone assembly



DRAWBAR ADJUSTMENT



Adjustable drawbar

- Possible for top trailer fixation or central drawbar
- Optionally with nitrogen gas spring cylinder as drawbar suspension
- Shock absorbing elements: The hydraulic cylinder pretensioned with gas pressure absorbs heavy impacts and vibrations of the tanker (e.g. braking jolts, uneven road surfaces, etc.)
- **Optional:** A bellows shock absorber is optionally available for the central drawbar.



Top trailer fixation (standard fixation)



Bottom trailer fixation Y-drawbar



- Better tractor traction
- Larger steering angle

Bottom trailer fixation central drawbar



- Better tractor traction
- Larger steering angle
- Optional bellows drawbar suspension

AUTOMATIC SUCTION

Fast, effective, clean!

All without getting down from the tractor

- In 6" or 8" sizes, including original BAUER elastic funnel and height-adjustable funnel stand
- Operable either on the left or right and even on both sides with the center rotating element variant
- Hydraulically swiveling with hydraulic venting valve for quick separation from the funnel
- Thanks to the hydraulic compressor switching, there is no need to get down



Hose variants



Suction connection

Standard valves with BAUER quick coupler and venting valve



Bell valve

Bell valves are suitable for thicker types of slurry.



Elastic funnel 8"

A special rubber material offers good sealing at all temperatures. Also suitable for stationary pit lines.



Plate valve

Plate valves offer significant advantages for slurries with high straw or dry matter content and low-viscosity media such as thin slurry and water. Due to their design, they are more difficult to move and are therefore recommended only with pneumatic or hydraulic actuation.



Rotating element – side-mounted



Rotating element – center-mounted



STEEL TANKER COMBI



Proven vacuum technology paired with high spreading pressure

Combi tankers are designed for mountainous and hilly terrain. On level surfaces, the distribution is performed by the rear spreader. On slopes too steep for driving, the BAUER high-pressure pump and slurry distributor do the job. The combi tanker can be expanded with the same options as a vacuum tanker.

Combi unit

The combi unit manufactured in-house by Bauer is available in two designs and can be operated in three modes as a standard feature:

- Compressor
- Compressor and rotary pump
- Rotary pump

F3RDK/B33K

- Compressor B33 or B63
- High-pressure rotary pump F3RDK
- Power take-off drive with input speed 540 rpm



Magnum M540K/B63K

- Compressor B63 or B33
- High-pressure rotary pump M540K
- Integrated cutting unit for slurry with high solid content
- Power take-off drive with input speed 540 rpm



Hydraulic slurry distributor

Hydraulically actuated, optimal swivel range in horizontal and vertical directions Horizontal swiveling performed by a robust gear rack mechanism. The nozzle is easy to clean via the HK coupling. The centered arrangement allows a spreading angle near to the tanker on both sides.



Combi tanker as pump station

With the three operating modes of the BAUER combi unit (compressor – compressor and rotary pump – rotary pump), the combi tanker can also be used as a pump station. The suction opening can also be used as an additional cleaning opening.



Combi tanker with central drawbar

A pressure outlet with shut-off valve is optionally available. This eliminates decoupling of the adapter pipes.



High-pressure combi add-on tanker

The combi tanker is available as an add-on for typical carrier vehicles from 2,100 l to 4,000 l. Modified brackets ensure secure adaptation to the carrier vehicle. An additional lengthwise separator wall makes this tanker perfect for steep terrain.



Municipal tanker, special tanker

This industrial tanker is a special variant of the combi tanker offering individual configuration options for special applications. The many possibilities include sewer and street cleaning or irrigation of embankments and gardens.



STEEL TANKER PUMP



Pump tankers with high-performance pump technology

BAUER pump tankers are characterized by high performance values. Fast filling right up to the top as well as high discharge pressure – which is reflected in the spreading precision and width – make the BAUER pump tanker one of the most powerful steel slurry tankers around.

Standard advantages

- Fast, 100% filling of the tank volume
- Effective stirring mechanism via bypass
- Good spreading width
- Three spreading rate control options:
 - Pump speed
 - 3-way slide valve
 - Driving speed



Extra dome for pump tankers

For external filling from above

- Extra dome, round, 450 mm diameter, hydraulic
- Extra dome, square, 650 x 650 mm hydraulic



Pump technology: Screw pump



Model	Max. input speed (rpm)	Pump rate (l/min.*)	Max. operating pressure (bar)	Suction flange (mm)	Discharge flange (mm)
E3000 GLD	540	3.000	5	150	133
E4000 GLD	540	4.000	5	150	133
E6000 GLD	400	6.000	4	200	150
E8000 GLD	540	8.000	4	200	150

Filling shut-off

The contact-free reed relay ensures robustness. When the tank is full, the valves switch automatically. The filling process is complete and the pump stirs the tank contents.



Tank counter Signo-Count

This tank counter requires no power connection and is perfect for billing in the case of contractors and rental tankers.

The pulses are emitted via two inductive reed switches. A total and a resettable day counter indicate the number of loads.





SLE system

- Optimal tongue load even with low tank content
- The stirring properties are not impaired
- Not susceptible to blockages
- Automatic chamber system without the need for hydraulic connections
- Two separate sight tubes for the individual levels

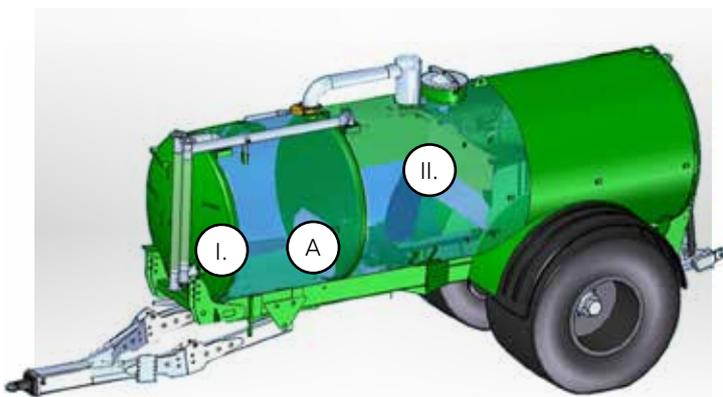


Suction

Both chambers I & II fill evenly.

Spreading

Chamber II empties first, and the slurry flows through opening A into chamber I in the tank slide valve. The tongue load is maintained until the air from chamber II displaces the vacuum in chamber I.



Pro injection, single-axle pump tanker

- Wheel cutout in the tank including plastic wheel arch widener
- Single-axle with 17 t load capacity, 1.050/50R32 tires
- Bottom trailing fixation 4 t
- Preparation for three-/four-point hydraulics Kat.3
- Bored axle as preparation for tire pressure control system
- Screw pump E6000GLD
- Telescoping rod (optional)

Front suction unit

- Mounted to the tractor front hydraulics, lines run through the tractor cabin with integrated Fill-Fix HK194/8"
- Front tank for ballast filling with center separating wall, controlled via Comfort / Signo control
- Suction connection with piping through the steel tank



POLYESTER TANKERS

The easy way to spread your valuable fertilizer

BAUER polyester tankers are available in two versions with a capacity from 6,000 to 26,000 liters.

BAUER pump tankers are equipped with the robust eccentric screw pump.

BAUER Turbo centrifugal tankers are equipped with a sturdy rotary pump.

The main advantage:

- Slurry- and UV-resistant tank surfaces offer lasting protection and require no further protective coating for a clean appearance as steel tankers do.
- No tanker is as flexible in terms of axle positioning as the polyester tank with continuous wheel cutouts.
- Maximum tongue loads can be achieved even for short tankers thanks to the tank shape and pendulum axle unit.
- Pump capacity of 4,000 liters per minute at 6 bar pressure – optionally available with pump capacities of 6,000 or 8,000 l/min.
- A compressed air dual circuit braking system with integrated automatic, load-dependent brake force control (ALB) is standard on all polyester tankers.
- Hydraulic or combined brake systems are also optionally available.





POLYESTER TANKER



Tank innovation

BAUER polyester tanks are given a special exterior gel coat that is also used in yacht construction and offers the best UV resistance and protection for resin and fiberglass.

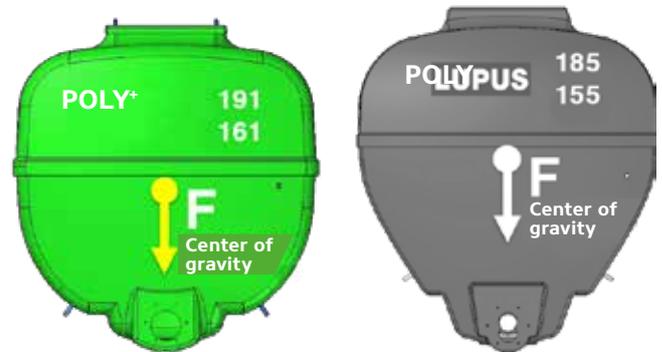
BAUER tanks – hand-made

The special “heart shape” of the tank gives it a low center of gravity and can only be produced via a “hand lamination process”. Although time-consuming, this process results in quality far superior to machine manufacturing since it permits varying of the wall thickness. Surfaces that rest against the support frame and the wheel cutouts are thicker, the top and lid are thinner. This guarantees both high stability and low weight.



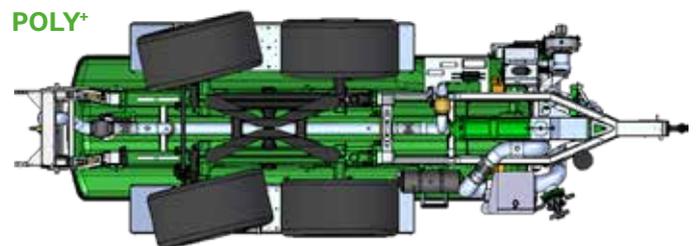
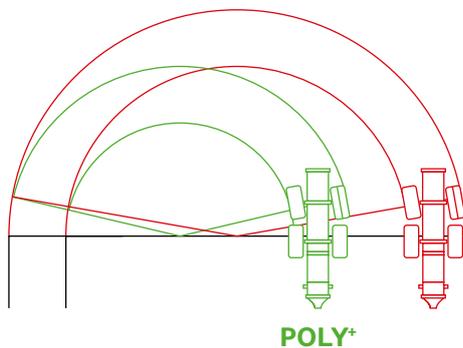
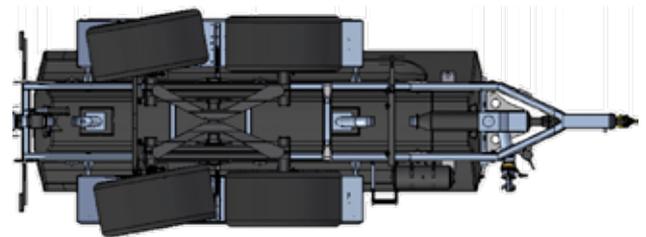
POLY+ with new tank geometry

- Optimized center of gravity
- Proven exterior gel coat
- Optimized weight distribution for attachments
- Narrower frame contact points
= Higher tire steering angle



The new vehicle frame

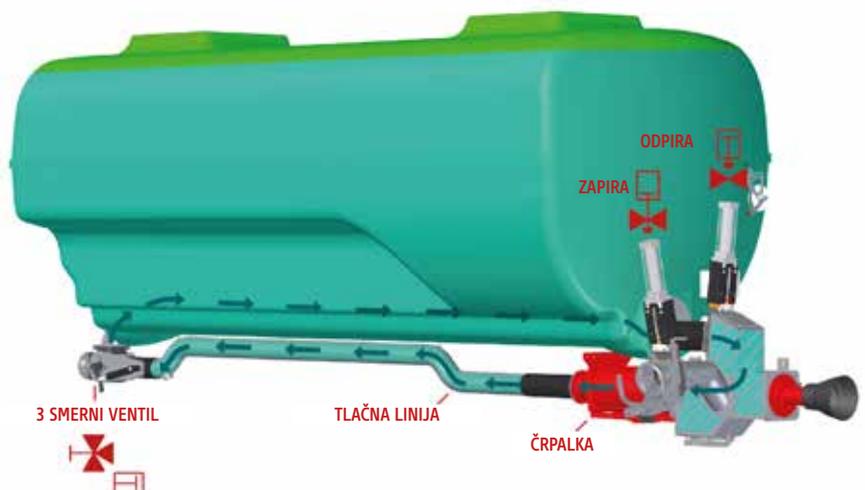
- Narrower frame
= Enlarged steering angle
= Space-saving adaptation of add-on components
- Low soil impact in the headland
= Less damage to the upper soil zone
- Decreased tire wear
= Longer service life



Turning radius 5.7 m smaller (with reference wheel 750/60R30.5)

Stirring system as standard

Switching the three-way valve to stir mode feeds the slurry back into the tank. This results in circulation of the entire content inside the tank at a high flow rate and enormous stirring performance based on the pump capacity.



POLYESTER TANKER ACCESSORIES



Tandem pendulum steering unit as standard

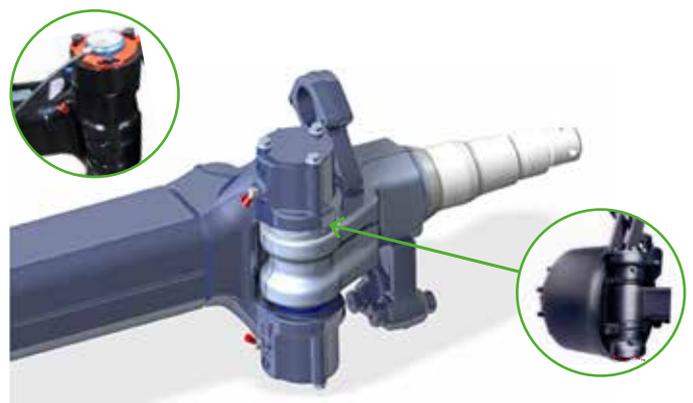
The independent suspension of the wheels allows for low, evenly distributed ground pressure. The integrated “AgroTurn” Ackerman steering produces smooth caster properties thanks to the special cam disk. Depending on the tire dimensions, the steering angle can be fully utilized. As a result, this tandem axle system is also easy on tires. The solid spar geometry ensures a low height and high load capacity as well as the best field and slope properties.



AgroTurn pendulum axle

The BPW AgroTurn steering axle enables a larger steering angle thanks to the new forged steering fork. In the “AgroTurn” steering axle, we also integrate the angular sensor of the positive steering directly into the steering housing to protect it against soiling influences.

- Lower steering force due to the reduced caster offset; plus, a tempered steel spindle-knuckle in place of spheroidal graphite iron and steel steering housing
- Low-maintenance! The lubrication intervals of the steering pivots are increased by five times
- Pre-equipped for integrated angular sensor installation of the electrohydraulic positive steering EHLA
- Proven BPW cam disk moved upward
- Larger steering angle thanks to brake camshaft positioning moved 10° to the rear



HP axle assembly

- Large leveling range up to 270 mm
- Static / dynamic leveling
- Travel height regulation possible with corresponding controls
- Suspension quality adjustable based on usage conditions
- Off- and on-road at up to 65 km/h
- ALB / ABS / AGS compatible



Pneumatic suspension

By standard, the 24,000 and 26,000 liter polyester tanker is equipped with a pneumatic suspension. Tandem tankers can optionally be equipped with this.



POSITIVE STEERING SYSTEM



Positive steering

For tandem and tridem, an optional electronic positive steering system actively steers the tires, thereby shortening the response time and making it easy to maneuver, circle in small radii and minimize soil impact. Road travel in the higher speed range is safer with positive steering, and the life span of the tires is extended.

Steering computer

The system is designed to detect safety-related errors in the system and to transition the system to a fail-safe state via a defined switching path. The transition to the fail-safe state takes place via deactivation of all outputs of the safety electronics.



Angular sensor

- Low transmission forces
- Hermetically sealed for absolute protection against steam cleaners or water spray (IP67)
- Low-wear
- Fast response pulse
- Tow ball coupling K80 required



POLYESTER TANKER ACCESSORIES



TONGUE LOAD OPTIMIZATION

SLE system

- Optimal tongue load even with low tank content
- The stirring properties are not impaired
- Not susceptible to blockages
- Special polyester vacuum design

Suction

Both chambers I & II fill evenly.

Spreading

Chamber II empties first, and the slurry flows through opening A into chamber I in the tank slide valve. The tongue load is maintained until the air from chamber II displaces the vacuum in chamber I.



Tire pressure control system

With the option of the tire pressure control system, the air pressure value pre-programmed for field and road is automatically adjusted at the touch of a button. This ensures the lowest ground pressure in the field and the lowest wear on the street.

- Less ground pressure due to larger contact area on the field
- Oil cooler with auxiliary fan
- Screw compressor BAUER ROTORCOMP
- Less fuel consumption



Filling shut-off and load-based brake control

An optional filling shut-off automatically ends the suction process, and the slurry in the tank is stirred. Inductive and therefore robust reed switches guarantee reliability. The automatic, load-dependent brake force control (ALB) is included as standard.



4-point lift system

Equipped for the future – near-ground and injection distribution technology requires 3- or 4-point attachment. The optional 4-point lift system Kat3. comprises both attachments; corresponding controls are also individually built and integrated. Also standard is an active contact pressure function, which is required for various applications and equipment.

PUMP TECHNOLOGY

Pump technology: Screw pump

The extra-large suction housing for tanker use with the standard flap for emptying foreign bodies protects against heavy objects. A hardened hollow rotor paired with a stator ensures long life spans. The pump head unit mounted in an oil bath is protected from the media in the pump chamber by a high-end floating ring seal.

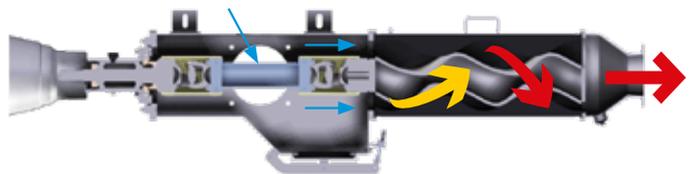


- Self-priming
- High suction and pumping capacity
- Oil bath immersion with floating ring seal
- Specially manufactured hollow rotor
- Suction housing with quick emptying of foreign bodies
- Industrial joints permanently encapsulated

Model	Max. input speed (rpm)	Pump rate (l/min.*)	Max. operating pressure (bar)	Suction flange (mm)	Discharge flange (mm)
E3000 GLD	540	3.000	5	150	133
E4000 GLD	540	4.000	5	150	133
E6000 GLD	400	6.000	4	200	150
E8000 GLD	540	8.000	4	200	150

Pump technology: Smoothly running hollow rotor

A hollow rotor rotates in a double-threaded stator of special rubber that is suitable for both slurry and water. The turning of the rotor transports the pumped medium to the pressure side without pulsations. The pumped volume depends on the speed and remains steady at a constant speed. The powerful discharge pressure is independent of speed and is sustained even at low speed.



The BAUER eccentric screw pump is self-priming.



Centrifugal tankers

BAUER centrifugal tankers – structurally identical to pump tankers – are equipped with robust and sturdy rotary pumps. The slurry, which flows freely into the rotary pump, is transported to the distributor via the pressure line at a high, constant pressure of up to 5 bar and a pump capacity of up to 5,000 l/min*. The slurry is stirred by circulation flow, whereby no mechanical or highly stressed parts are required inside the tank.



* according to pump standard: water 20 °C, open inflow, 0 bar pressure

POLYESTER TANKER ACCESSORIES



SUCTION ARM VARIANTS

Suction arm

The suction arm can be conveniently swiveled from the tractor via hydraulics. This allows the slurry to be quickly sucked up via an 8" suction line right from the tractor – clean and time-saving.

Thanks to the central position, the suction arm can be positioned on either the right or left. Alternatively, a suction boom for use with supply vehicles or a suction arm with two swivel joints are available.



Rock catcher docking station

An optional rock catcher docking station separates out heavy foreign objects and is suitable for transporting suction lines in the tractor front hydraulics.



Docking station for elevated tank

With safety radio remote control



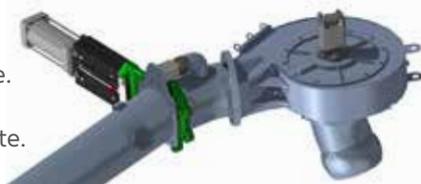
Suction arm – 2 swivel joints

This suction arm variant was developed specially for the split method. The spreading tanker remaining in the field uses this suction arm to dock quickly and flexibly with the supply tankers via 2 swivel joints and takes on the slurry within a short time. The standard 8" (200 mm) piping is robustly and hydraulically swiveled via fixed rotary flanges. Automatic venting ensures rapid docking. During road travel, the suction arm remains in a close-up resting position.



The BAUER Group FillFix

Every suction process is subject to physical losses in the suction line. These losses result in a reduction of the flow rate.



The BAUER FillFix compensates for these suction losses.

- Shorter filling times due to optimal suction process
- Lightweight construction specially for use on the suction arm
- Flow rate ~6,000 l/min.
- 2 storage types available to choose from
- High hydraulic efficiency

Suction boom

Specially designed for elevated tanks as well as for slurry chains with supply tankers.



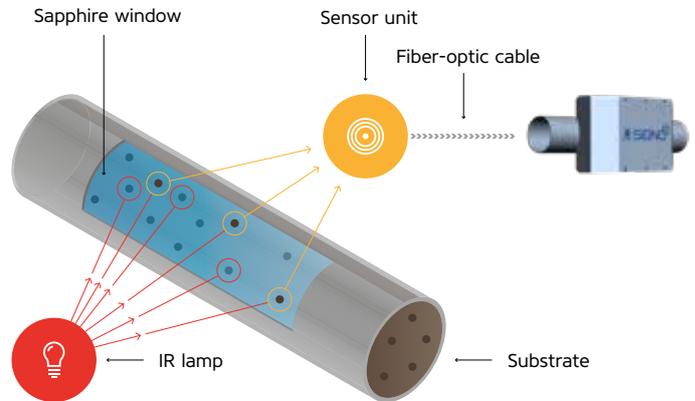
Supply tankers

Specially designed for transport by road. Swiveling bolster chassis for outstanding, safe caster properties. Equipped with truck road tires as standard, agricultural radial tires can also optionally be selected.

- Especially efficient for farm/field transport
- Optionally also with vacuum or pump technology
- Sizes from 14,000 to 24,000 liters available
- Docking funnel and many other options available



POLYESTER TANKER CONTROLS



SIGNO – control technology for pros

SIGNO standardizes the communication between the tractor and tanker, ensures compatibility and enabling manufacturer-independent operation of the devices and machines. In practice, this means: A single SIGNO terminal on the tractor replaces many attachment-specific terminals. But SIGNO can do even more: The technology also controls the documentation of the work steps in the field and manages the data exchange with the farm PC.

SignoID – the BAUER Group NIRS system for slurry content analysis

The BAUER SIGNO ID (SIGNO Ingredient Detector) offers the solution with its NIRS sensor technology. NIRS – NearIntra-RedSpectra – is a way to take a “spectral fingerprint” that, after comparison with a database, allows for determination of the composition and nutrient content of liquid fertilizers. This database is filled with measurement values from samples analyzed in the laboratory consisting of swine and cattle slurry as well as digestate.

The following nutrients are measured: Ntotal, P₂O₅, K₂O, NH₄-N and DM content. The measurement, which can be performed in seconds on the slurry tanker during suction and spreading, allows the spreading quantity to be regulated based on the nutrient content. For example, the vehicle operator can specify the desired amount of nitrogen, and the spreading quantity will be regulated accordingly. In other words, the distributed slurry quantity will no longer be determined by the cubic meter, as before, but by the nutrient content of the slurry itself. Thanks to the SIGNO control from the BAUER Group, the regulation is fully automatic.



SIGNO T35i – Terminal 5,6“



Joystick with touch display



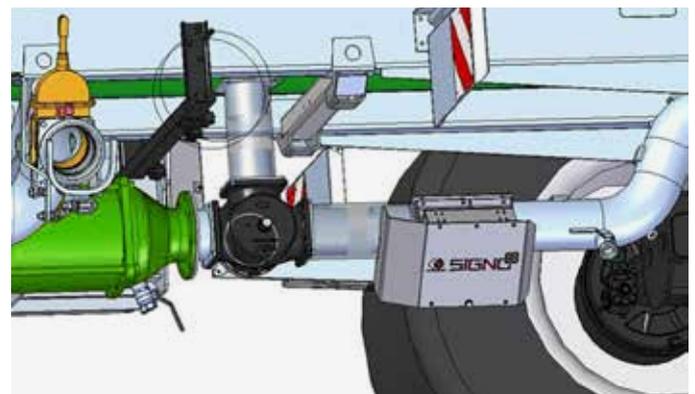
SIGNO 800 – Terminal 8“



Joystick with axis control



SIGNO 1200 – Terminal 12“



BAUER has been a member of the Competence Center ISOBUS since 2019. 



This intuitive operating terminal has been designed for tractors without ISOBUS. The stable and detachable aluminium casing contains rocker arms, a sequential circuit of the application devices and status displays such as “tank empty”. For spreading booms on pump tankers with section control the application rate is automatically reduced by 50%.

The advantages of Signo 4.0

- Sequential controls are included
- tank empty indicator is included
- with „section control“ automatic reduction of the 3 way valve to 50%
- possibility of remote maintenance by the factory



Joystick

Functions are connected to the control panel in parallel



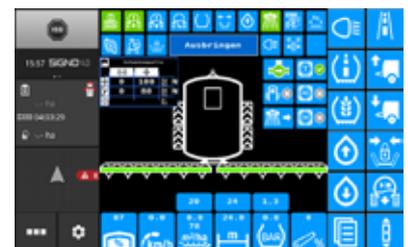
Poppet valve control

- Simple combination of cylinder functions
- The individual stations are preselected via an electrical control panel and then initiated via the control valve of the tractor hydraulics.



Electronic quantity control

An inductive flow meter analyzes the exact slurry quantity supplied to the spreader. Based on the flow rate, speed and spreading width, the computer calculates the effective spreading quantity and regulates this automatically via a servomotor.



SPREADING EQUIPMENT

BAUER spreaders – thousands in use

Slurry spreading using distribution equipment that is low to the ground and/or injection-based is absolutely essential for environmentally conscious and economical fertilizing today. With the right spreading method, the organic fertilizer slurry can be utilized significantly better, emission losses can be considerably reduced and the groundwater can be protected. Statutory requirements will underscore these advantages throughout Europe in the coming years.

In recent years, the BAUER Group has greatly refined the spreading techniques in use since 1995 and today offers a broad range of professional solutions. Drag hose applicators offer depositing of the fertilizer in rows with the ability to realize large spreading widths and universal use in crops, fields and pasture. Drag shoe applicators use pressure to deposit the slurry at the root and are intended for pasture as well as crops. Applicators that actively inject into the ground, such as slit injectors, cultivators and disk harrows deposit the slurry under the soil.

High spreading reliability with system-compatible, high-performance BAUER slurry tankers therefore make for an efficient pairing of tanker and spreader.





DRAG HOSE APPLICATOR



The BAUER drag hose applicator deposits the slurry in lines spaced by 25 cm through 40 mm wide flow hoses. The spreader head ExaCut moves perfectly vertically to reliably and evenly distribute the slurry between all the flow hoses. An integrated cutting mechanism protects against shifting of the distribution openings. The standard lift frame has been appreciated by users for years and allows for flexible work. The integrated hydraulic drip stop and the secure locking of the very robust side arms ensure clean and safe road travel.

Spreading widths:

9 m, 12 m, 15 m and 18 m

SwingMax spreading widths:

21 m, 24 m, 27 m and 30 m

Mountable on steel and polyester tanks, can also be adapted for third-party tanks.



ECL – precision spreader

- Centralized / decentralized position in spreading system
- Cuts and distributes precisely in a single step
- Heavy object separator



DRAG SHOE APPLICATOR



The drag shoe applicator has specially shaped drag shoes that open up the crops and deposit the slurry directly on the ground. The 40 mm wide flow hoses are evenly supplied via one or two Bomech distribution heads and positioned at 25 cm intervals. A slope compensation system optimally adapts the individually spring-loaded drag shoes to the terrain. Undesired dripping is prevented by swinging the flow hoses to an upward position.

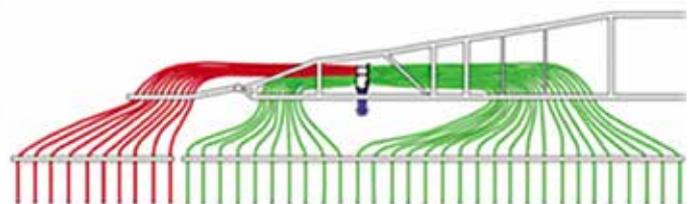
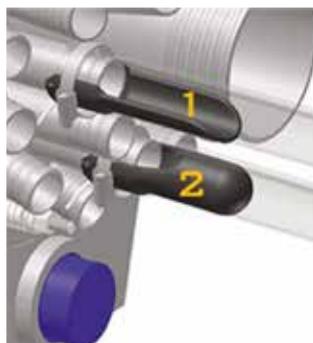
Spreading widths:

5,3 m, 6,2 m, 7,5 m, 8,8 m, 12 m, 15 m, 18 m, 21 m, 29 m



CFC – boom section switching

Small “balloon valves” in the hose are blown up via compressed air to close the hose.



DISK INJECTOR



The lightweight disk injector is specially designed for attachment to slurry tankers to keep the empty weight of the slurry tanker as low as possible. The 50 mm wide flow hoses are evenly supplied by a central distribution head and deposit the slurry in slit rows 20 cm apart. The 305 mm, three-part disks open up 2-6 cm slits in the ground and are arranged in disk pairs. Each disk pair is equipped with caster steering and a mechanical drip stop.

Spreading widths: 5,2 to 12,3 m



Three-part, ONE-way slit disks enable a precise cutting path and widen the slit for the slurry.

CERRES G LIGHT CULTIVATOR



The CERRES G is a large spring fork cultivator that was specially designed for attachment to a slurry tanker and insertion of the slurry into the soil. The two-row design in connection with a high frame pass-through ensures good material flow. The CERRES G is equipped by standard with 550 mm tall tines that effectively loosen up the soil. The slurry is deposited under the soil directly behind the tines via 50 mm injection tubes. A row spacing of only 26.3 cm guarantees a comprehensive supply of nutrients to the plants. The trailing flat disk roller – with a diameter of 400 mm – serves to maintain proper height, level the soil, break up clumps and lightly tamp down the loosened soil. With the standardized attachment points, the CERRES G can also be operated directly on a tractor, e.g. for seed bed preparation.



Optionally available:

- 13 mm combs behind the flat disk roller: these help to maintain a level field and also provide for better straw distribution when processing stubble.
- Individual levelers (drag tines) ensure that the slurry of the last tine row is properly covered with soil. If there is too much material left in the field after harvesting, these can be easily removed.
- Duck foot tines with a width of 200 mm allow for even more area to be processed.



CERRES S DISK HARROW

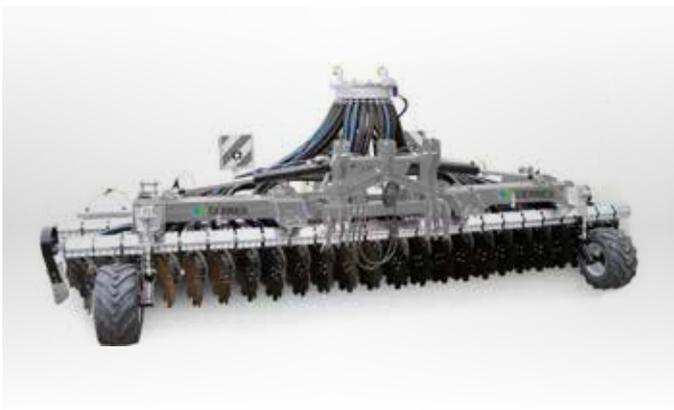


The Cerres S disk harrow works the slurry into the ground in a single step. The two rows of toothed disks introduce the slurry into the ground gently, in a flat profile. Maintenance-free bearings and a disk diameter of 510 mm make the Cerres S an economical machine that was designed specifically for attachment to slurry tankers.

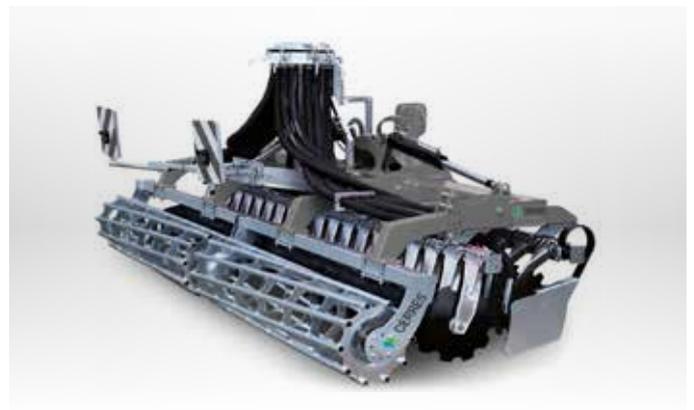
Spreading widths: 4 m, 5 m and 6 m

Two depth guide variants are available:

- Cerres S-Pro T, infinitely adjustable depth guide via roller feeler
Low weight and convenient center of gravity.
- Cerres S-Pro W, depth guide via crumbler roller
540 mm diameter re-packing of the soil.



Cerres S-Pro T



Cerres S-Pro W

SPREADING NOZZLES

Double nozzle spray boom

The economical spreading system for large spreading widths of up to 27 m

- Robust and simple design
- Low wind sensitivity thanks to flat slurry fan
- Easy adjustment of the spreading width thanks to exchangeable extension pipes
- Can be retrofitted to BAUER tanks, also adaptable to third-party tanks



Distributor body in
HK 108 / 4", HK 133 / 5" and HK159 / 6"

Rear spreader

The BAUER rear spreader nozzle is characterized by low wind sensitivity thanks to the low and flat slurry fan.

Nozzles available in
diameters 52, 60 and 76 mm



Side spreader

Nozzles available in
diameters 44 and 55 mm



Deflector plate spreader

Small-droplet distribution directly downward offers the possibility of spreading right up to the field edge. Rigid or height-adjustable via rack-and-pinion drive, cleaning hinge on spreader head, bracket for swiveling the baffle plate away to work with other equipment, spreading widths with pump tankers of up to 18 m.



Slurry distributor

In mountain regions, where it is technically not possible to spread slurry in rows on steep slopes, the slurry distributor still has its place and can also be attached to pump tankers.



BRAKING SYSTEMS



HYDRAULIC BRAKING SYSTEM

Hydraulic braking system

All BAUER tankers are available with hydraulic braking systems, one brake cylinder per brake lever.



Pressure limiting valve for hydraulic braking systems



Combined braking system

Hydraulic and compressed air braking system – ideal for collectively owned tankers used with various tractor vehicles.



Hydraulic control valve

Load adjustment with 3 settings: empty / half full / full, 1 x single-action connection required





Brake safety package

Automatically brakes the tanker when:

- The tractor ignition is switched off
- The tanker decouples from the tractor (breakaway protection)

COMPRESSED AIR BRAKING SYSTEM

Compressed air braking system

Dimensioned according to tire size, total weight and speed.



ALB – Automatic, load-dependent brake force control

The brake force is controlled automatically based on the tank content.



Cranked single axle

This ensures a low center of gravity.



Tandem-boogie axle

Spring-loaded, 4-wheel braking, optional steering axle



TIRES & LUBRICATION SYSTEMS

Tires

Depending on the terrain and soil conditions, a variety of tire profiles in diagonal and radial designs are available:



Lubricating bar in axle block

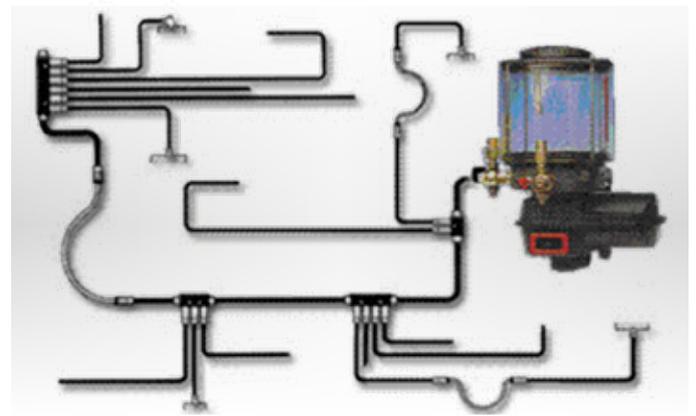
- 8 lubrication points TDASL
- Axle shaft and steering pivots
- Combined into one bar

Lubricating bars with more lubrication points available on request.



Progressive central lubrication system

- Fully automatic operation
- Individual lubrication points on request
- Offer based on component definition
- Oil reserve tank
- Lubrication point check via pressure relief valve
- Different lubrication point dosing
- Offer upon request



VACUUM TANKER

COMBI TANKER

PUMP TANKER

Information for tankers in standard portfolio	Tanker content	Tank diameter mm	Total length ²⁾ excl. nozzle mm	Total width mm	Total height ²⁾ mm	Dead weight approx. kg	Axle track mm	Tires			Compressor / pump capacity* Type / l/min.	
								Dimension	Tread	Width x diameter mm		
Single axle	V21	2100	1100	4160	1900	1950	940	1500	15.0/55-17	AW	391x850	B33 / 5300l
	V26	2600	1100	4660	1900	1950	1000	1500	15.0/55-17	AW	391x850	B33 / 5300l
	V31	3050	1100	5160	1900	1950	1060	1500	15.0/55-17	AW	391x850	B33 / 5300l
	V35	3500	1100	5670	1900	1950	1170	1500	15.0/55-17	AW	391x850	B33 / 5300l
	V40	4000	1250	5180	1900	2120	1200	1500	15.0/55-17	AW	391x850	B33 / 5300l
	V46	4600	1250	5680	2250	2235	1360	1700	550/45-22,5	Trac	550x1070	B33 / 5300l
	V52	5200	1250	6170	2400	2340	1540	1850	550/60-22,5	Trac	550x1244	B63 / 7100l
	V55	5500	1400	5690	2400	2520	1740	1850	550/60-22,5	Trac	550x1244	B63 / 7100l
	V63	6250	1400	6490	2400	2540	2000	1850	550/60-22,5	Trac	550x1244	B63 / 7100l
	V74	7400	1400	7250	2400	2560	2150	1850	550/60-22,5	Trac	550x1244	B63 / 7100l
	V77	7660	1500	6600	2550	2730	2160	1950	600/55-26,5	Trac	600x1354	B63 / 7100l
	V81	8100	1500	6850	2500	2750	2190	1950	600/55-26,5	Trac	600x1354	B83 / 8200l
	V87	8700	1600	6810	2550	2750	2370	1750	800/45-26,5	Trac	800x1354	B83 / 8200l
	V97	9700	1600	7320	2550	2760	2760	1750	800/45-26,5	Trac	800x1354	B83 / 8200l
V107	10700	1600	7780	2850	2960	3150	2000	850/50-30,5	Trac	850x1650	B83 / 8200l	
Tandem axle	V63T	6250	1400	6490	2120	2690	2450	1700	16.0/70-20	Flot	418x1075	B63 / 7100l
	V74T	7400	1400	7250	2270	2790	2600	1850	16.0/70-20	Flot	418x1075	B63 / 7100l
	V77T	7800	1500	6600	2270	2760	2680	1950	16.0/70-20	Flot	418x1075	B63 / 7100l
	V81T	8100	1500	6850	2270	2760	2760	1950	16.0/70-20	Flot	418x1075	B63 / 7100l
	V98TL	9852	1550	7600	2600	2970	3900	2050	550/60-22,5	Trac	550x1244	B90 / 8000
	V124TL	12478	1700	7950	2600	3200	4550	2050	550/60-22,5	Trac	550x1244	B100 / 10680
	V141TL	14160	1700	8650	2600	3200	4800	2050	550/60-22,5	Trac	550x1244	B100 / 10680
	V155TL	15509	1850	8200	2600	3370	4850	2050	550/60-22,6	Trac	550x1244	B100 / 10680
V181TL	18167	1850	9190	2970	3590	6600	2150	28L-26 ET-50	Block	714x1590	B100 / 10680	
Single axle	K26	2600	1100	4990	1900	2350	1250	1500	15.0/55-17	AW	391x850	F3RD-B33 / 1600-5300
	K31	3050	1100	5500	1900	2350	1310	1500	15.0/55-17	AW	391x850	F3RD-B33 / 1600-5300
	K35	3500	1100	6000	1900	2350	1420	1500	15.0/55-17	AW	391x850	F3RD-B33 / 1600-5300
	K40	4000	1250	5500	1900	2510	1450	1500	15.0/55-17	AW	391x850	F3RD-B33 / 1600-5300
	K45	4600	1250	6290	2250	2620	1620	1700	550/45-22,5	Trac	550x1070	F3RD-B33 / 1600-5300
	K52	5200	1250	6790	2400	2710	1690	1850	550/60-22,5	Trac	550x1238	M540-B63 / 3000-7100
	K54	5500	1400	6300	2400	2650	2050	1850	550/60-22,5	Trac	550x1238	M540-B63 / 3000-7100
	K62	6300	1400	6790	2400	2650	2300	1850	550/60-22,5	Trac	550x1244	M540-B63 / 3000-7100
	K73	7400	1400	7630	2500	2650	2380	1850	550/60-22,5	Trac	550x1244	M540-B63 / 3000-7100
	K78	7700	1500	7060	2550	2840	2420	1950	600/55-26,5	Trac	600x1354	M540-B63 / 3000-7100
	K83	8100	1500	7320	2550	2840	2450	1950	600/55-26,5	Trac	600x1354	M540-B63 / 3000-7100
K88	8700	1600	7160	2550	2850	2850	1750	800/45-26,5	Trac	800x1354	M540-B63 / 3000-7100	
K98	9700	1600	7660	2550	2850	3240	1750	800/45-26,5	Trac	800x1354	M540-B63 / 3000-7100	
K105	10700	1600	8080	2850	2960	3630	2000	850/50-30,5	Trac	850x1650	M540-B63 / 3000-7100	
Single axle	P53	5315	1400	5440	2400	2580	2150	1850	550/60-22,5	Trac	550x1244	E3000GLD / 3000
	Poly 60+EA	6000	-	7520	2600	2455	2830	2050	550/60-22,5	Trac	550x1230	E3000GLD / 3000
	P61	6074	1400	6030	2400	2580	2200	1850	550/60-22,5	Trac	550x1244	E3000GLD / 3000
	P73	7315	1500	6200	2450	2790	2800	1850	600/55-26,5	Trac	600x1354	E3000GLD / 3000
	P82	8242	1550	6440	2450	2820	3200	1750	700/50-26,5	Trac	700x1354	E4000GLD / 4000
	Poly 81+EA	8700	-	7520	2750	2705	3150	2050	700/50-26,5	Trac	700x1270	E3000GLD / 3000
	P92	9173	1550	7030	2550	2820	3250	1750	800/45-26,5	Trac	800x1354	E4000GLD / 4000
	P105	10548	1700	6810	2700	3200	3600	1750	850/50-30,5 ET-50	Trac	850x1670	E4000GLD / 4000
	Poly 111+EA	11100	-	6840	2980	3055	2980	2050	28 L 26	Block	714x1590	E4000GLD / 4000
	Poly 60+	6000	-	6620	2500	2300	3540	1930	550/60-22,5	Trac	550x1240	E3000GLD / 3000
	Poly 81+	8700	-	6620	2500	2650	3700	1930	550/60-22,5	Trac	550x1240	E4000GLD / 4000
	P100	9860	1550	7210	2600	2950	4000	2050	550/60-22,5	Trac	550x1244	E4000GLD / 4000
	Poly 111+	11100	-	6960	2750	3000	3800	2150	550/60-22,5	Trac	550x1240	E4000GLD / 4000
	P125	12480	1700	7520	2600	3180	4700	2050	550/60-22,5	Trac	550x1244	E4000GLD / 4000
Tandem axle	Poly 131+	13100	-	7630	2750	3000	3910	2150	550/60-22,5	Trac	550x1240	E4000GLD / 4000
	P141	14160	1700	8270	2600	3180	4870	2050	550/60-22,5	Trac	550x1244	E4000GLD / 4000
	Poly 141+	14100	-	7690	2750	3100	4200	2150	550/60-22,5	Trac	550x1240	E4000GLD / 4000
	P155	15510	1850	7760	2600	3360	5150	2050	550/60-22,5	Trac	550x1244	E4000GLD / 4000
	Poly 161+	16080	-	8950	2980	3150	5230	2200	28 L 26	Block	714x1590	E4000GLD / 4000
	P181TL	18167	1850	8790	2970	3690	6650	2225	28 L 26	Trac	714x1590	E4000GLD / 4000
	Poly 191+	19100	-	8950	2980	3400	5380	2200	28 L 26	Block	714x1590	E4000GLD / 4000
	Poly 207+	20700	-	8950	2980	3520	5530	2200	28 L 26	Block	714x1590	E4000GLD / 4000
	Poly 241+	24100	-	10130	3000	3550	10430	2200	28 L 26	Block	714x1590	E6000GLD / 6000 ¹⁾
	Poly 260+	26000	-	10130	3000	3700	10580	2200	28 L 26	Block	714x1590	E6000GLD / 6000 ¹⁾

* Information for compressors is theoretical air flow, for pumps at speed 540 rpm

¹⁾ For E6000GLD at 400 rpm; water 20 °C, open inflow, 0 bar pressure

²⁾ Excluding spreader, top edge of tank

Subject to technical changes

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SEPARATOR

Press screw separator for solid-liquid separation


SEPARATOR PLUG & PLAY

System for portable slurry separation


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Submersible motor stirrer


MTXH

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