EQUIPMENT AND ACCESSORIES

Profi slurry tankers
We understand that you need to meet any challenge your work may throw at you. That’s why we offer a range of solutions which enable you to optimise your slurry tanker so that it meets all your requirements. Our slurry technology ensures that you are fully equipped for every slurry spreading operation. Invest in top quality from the German market leader and guarantee your long-term success. Customise your slurry tanker with us!
Vacuum slurry tankers are attractive because they are very easy to use, suffer very little wear and provide excellent value for money. All our vacuum tankers are fitted with high-quality compressors from Jurop. When combined with turbo fillers, even vacuum slurry tankers can achieve very high filling rates!

### Turbo fillers for vacuum tankers

Turbo fillers produce a much higher fill level than the vacuum effect alone. In pig slurry foaming is reduced considerably, and in cattle slurry a turbo filler will prevent the vacuum-related increase in volume that occurs when the vacuum is reduced. In addition to achieving a higher fill level, tanker filling times are also significantly faster.

<table>
<thead>
<tr>
<th>Size</th>
<th>Oil volume</th>
<th>Mounting options</th>
</tr>
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<tbody>
<tr>
<td>NW 150</td>
<td>60 l</td>
<td>Front left or right, rear left or right</td>
</tr>
<tr>
<td>NW 200</td>
<td>60 l</td>
<td>Front under the tank, suction port on right and left via T-fitting or suction spout</td>
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<tr>
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<td>80-100 l</td>
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**Benefits of turbo fillers:**

+ Easy to retrofit
+ Significantly faster filling
+ Protect the vacuum compressor

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**Benefits of vacuum slurry tankers:**

+ Technology tolerates foreign bodies
+ Low wear
+ Low maintenance costs
+ Easy to set up
+ Power Boost technology increases performance

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**Vacuum slurry tankers with Power Boost technology**

- Centrifugal pump with mechanical direct drive from the PTO, hydraulic compressor drive
- Three functions in one:
  - filling accelerator – agitator – pressure accelerator (up to 3 bar)
  - Option for increased performance: pressure line above the tank in NW 200

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**Benefits of pump tankers:**

+ Short filling and application times
+ No pressure fluctuations
+ Optimum filling even under difficult conditions, e.g. deep pits
+ More accurate application

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**Pump tankers**

Garant pump tankers deliver maximum suction efficiency – particularly when suction conditions are difficult. They also generate sufficiently high pressure in application systems with large working widths.

- Pump capacities up to approx. 12,000 l/min
- RotaCut 10 000 or 12 000 with stone trap and macerator
- Option: RotaCut with automatic ACC maceration control, stepless control of blade pressure on sieve

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**Turbo fillers**

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**Data and facts – Turbo fillers**

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**RUNNING GEAR**

**Boogie axle assembly with parabolic suspension**

Only the best for our customers! We always use original BPW axle assemblies. This enables us to deliver the quality you need for tough agricultural work.

**Data and facts – Boogie axle assemblies**

- Parabolic suspension (loads up to 26 t)
- 150 x 150 mm square axle
- 410 x 180 brake drum, option: 420 x 200
- Automatic load-sensitive brakes (ALB) as standard equipment
- Up to 60 km/h axles
- Large choice of tyre options

**Benefits of parabolic suspension:**

- High load-carrying capacity
- Stable driving characteristics

**Air suspension**

The advantages of air suspension are obvious: it transfers forces from the road and slurry tanker to the most rigid area of the frame, which increases roll stability. It also provides extremely high driver comfort and transfers tongue loads by reducing the load on the first axle.

**Benefits of air suspension:**

- Improved driver comfort
- Better weight distribution
- Load transfer possible

**Movable axle**

If you use several spreading techniques, your vehicle must balance extreme weight discrepancies. This is where movable axles come in: By changing the position of the axle, you achieve the perfect load on the coupling joint.

**Benefits of movable axles:**

- Positive load on the coupling joint
- Enhanced driver comfort
- Various application techniques possible

**Bottom-mount drawbar and drawbar suspension**

- Ball hitch with 3 t or 4 t tongue load
- Standard manual pump for further adjustment of drawbar tilt
- TÜV-tested drawbar suspension up to 5 t

**Features of bottom-mount drawbar and drawbar suspension:**

- Ball hitch with 3 t or 4 t tongue load
- Standard manual pump for further adjustment of drawbar tilt
- TÜV-tested drawbar suspension up to 5 t

**Top Cylinder**

With Top Cylinder, the tongue load can be shifted from the rear axle of the tractor to the front axle.

**Benefits of Top Cylinder:**

- Optimises tractive power
- Shifts tractive power to suit current conditions

**Benefits of movable axles:**

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**Zero-turn drawbar suspension**

BPW Boogie axle assembly with parabolic suspension

**Draaglijn voor een rechte vijver (boven) en ronde bochten (onder)**

In the GSL forced steer axle from BPW the knuckles are integrated into axle extensions, reducing the steering effort required. This has a positive effect on wear throughout system. An auxiliary accumulator is fitted to absorb peak pressures.

The forced steering cylinders move under the drawbar when the combination is travelling round bends, eliminating the need for an additional guard in this area.

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**Benefits of the MSS electrohydraulic steering system:**

- Low tyre wear
- Greater manoeuvrability
- Different drive strategies available (e.g. crab steering)

**Running gear**

BPW Boogie axle assembly with parabolic suspension

BPW axle assembly with air suspension

Drawbar suspension with forced steering

**Hydraulic forced steering**

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**Benefits of hydraulic forced steering:**

- Substantial improvement in driver comfort
- Direct force transfer
- Long-term steering accuracy
- Larger steering lock and tighter turning radius

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**ESS electronic forced steering**

Thanks to the Electronic Steering System, garant can offer electronic forced steering as an alternative to hydraulic forced steering.

As in the Multi Steering System (MSS), the central element is the patented drawbar sensor which measures the drawbar angle independently of rolling and pitching movements. The tractor mounting system meets the relevant standard with two K50 hitch balls.

**Benefits of ESS electronic forced steering:**

- Axle can be locked when driving on slopes
- Standard tractor mounting with K50 hitch balls
- Easy to attach

**Benefits of Top Cylinder:**

- Optimises tractive power
- Shifts tractive power to suit current conditions

**Benefits of the MSS electrohydraulic steering system:**

- Low tyre wear
- Greater manoeuvrability
- Different drive strategies available (e.g. crab steering)

**Multi Steering System (MSS)**

The electrohydraulic Multi Steering System (MSS) allows you to use your Profi slurry tanker even more cost-effectively as the ability to steer all the trailer axles offers the user a number of driving strategies. When travelling on the road, the in-track driving mode minimises tyre wear. During field work, in-track driving or offset (crab) steering protects the soil.

**Benefits of Top Cylinder:**

- Optimises tractive power
- Shifts tractive power to suit current conditions

**Benefits of the MSS electrohydraulic steering system:**

- Low tyre wear
- Greater manoeuvrability
- Different drive strategies available (e.g. crab steering)
A centralised lubrication system on your Profi slurry tanker will provide simple, automatic lubrication of all the grease nipples on the tanker.

Benefits of the centralised lubrication system:
+ Low maintenance requirement
+ Makes your tanker more reliable
+ Lubrication system can have up to 125 lubrication points

A flow meter measures the application rate for you and displays it continuously, covering a range from 0.5 to 12.0 m³/min. You can also opt for a flow meter which actively controls the application rate.

Benefits of the flow meter:
+ Accurate application rate monitoring
+ Easy to set up
+ Automatic documentation of application rate

Tyre pressure control systems significantly increase the efficiency of Profi slurry tankers. Our wide range of products and intelligent integration into SmartControl Profi make our tyre pressure control system unique!

- 1-line and 2-line systems available
- Option: tractor tyre pressure control
- Digital control of 2-line system (option: connection to SC Profi)
- Double-piston compressor system with 1,200 l/min effective output, oil requirement: 45 l/min
- Four-piston compressor system with 3,300 l/min effective output, oil requirement: 80 l/min
- Screw compressor with 2,400 l/min or 3,500 l/min effective output
Optional: patented PTG quick-release valves

Example: Time required for inflation from 1.5 to 3.5 bar on a tandem-axle slurry tanker

<table>
<thead>
<tr>
<th>Tyres</th>
<th>Time required (min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>750/60-30.5</td>
<td>6</td>
</tr>
<tr>
<td>Double-piston compressor system 1,200 l/min</td>
<td>6 min.</td>
</tr>
<tr>
<td>Four-piston compressor system 3,300 l/min</td>
<td>2.5 min.</td>
</tr>
</tbody>
</table>

Benefits of the tyre pressure control system:
+ Enhanced ride quality in the field and on the road
+ Lower ground pressure in the field
+ Reduced tyre wear and diesel consumption on the road
SUCTION SPOUT

The filling rate is a critical factor when determining the performance of professional slurry tankers. Suction spouts and docking stations allow you to increase your filling efficiency significantly.
We offer a wide range of systems – we’re sure to have the right solution for you!

Data and facts – Suction spouts

<table>
<thead>
<tr>
<th></th>
<th>Suction spout for docking stations</th>
<th>Suction spout with two swivel joints</th>
<th>Front suction spout</th>
<th>Top-mounted suction spout</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position</td>
<td>Right or left</td>
<td>Right or left</td>
<td>In the front hydraulics</td>
<td>Swivels through 180°; right and left (option: swivels through 270°)</td>
</tr>
<tr>
<td>Suction line</td>
<td>NW 200 or NW 250</td>
<td>NW 200</td>
<td>NW 200</td>
<td>NW 200</td>
</tr>
<tr>
<td>(continuous)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. suction depth</td>
<td>Defined by docking station</td>
<td>Approx. 2 m (when used with suction pipe for slurry pits)</td>
<td>–</td>
<td>Approx. 2.00 m (option: telescoping to 3.50 m)</td>
</tr>
<tr>
<td>Docking height</td>
<td>Max. 1.30 m</td>
<td>1.30 m to 4.30 m (with extended suction arm and suction cup)</td>
<td>Max. 4.00 m</td>
<td>Max. 5.00 m</td>
</tr>
<tr>
<td>Option: centrifugal pump on spout end to increase filling capacity (up to 12 m³/min)</td>
<td>✓</td>
<td>✓ Highly recommended</td>
<td>✓ Highly recommended</td>
<td>✓</td>
</tr>
<tr>
<td>Further options</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>Drip tray at the rear</td>
</tr>
</tbody>
</table>
**DOCKING STATIONS**

Data and facts – Docking stations

<table>
<thead>
<tr>
<th>Suitable for…</th>
<th>Docking stations for pits</th>
<th>Docking stations for elevated tanks and pits</th>
<th>Radio-controlled docking stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three-point headstock for transport</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Support wheels for positioning</td>
<td>–</td>
<td>✓ (option: swivel wheels)</td>
<td></td>
</tr>
<tr>
<td>Suction line (continuous)</td>
<td>NW 200 or NW 250</td>
<td>NW 200</td>
<td>NW 200 with NW 200 gate valve</td>
</tr>
<tr>
<td>Quick coupling system</td>
<td>NW 200 or NW 250</td>
<td>NW 200</td>
<td>NW 200</td>
</tr>
<tr>
<td>Special features</td>
<td>–</td>
<td>–</td>
<td>Double safety function with light barrier and remote control</td>
</tr>
</tbody>
</table>
Legal regulations will increasingly demand direct slurry incorporation into the soil. In order to attach incorporation equipment to your slurry tanker, you will need the appropriate power lift fittings and technology. Whatever you expect your power lift system to do, we offer the optimum solution!

**Data and facts – The models**

<table>
<thead>
<tr>
<th>Four-point lift frame, size L</th>
<th>Four-point lift frame, size XL</th>
<th>Four-point lift frame, size XXL</th>
<th>Floating four-point lift frame</th>
<th>Swivelling four-point lift frame</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum attached load</strong></td>
<td>2 t</td>
<td>3 t</td>
<td>4 t</td>
<td>Up to 3 t</td>
</tr>
<tr>
<td><strong>Maximum lifting capacity</strong></td>
<td>Up to 4.25 t</td>
<td>7.5 t</td>
<td>Up to 7.5 t</td>
<td>Up to 7.5 t</td>
</tr>
<tr>
<td><strong>Suitable for...</strong></td>
<td>Trailing hose applicators up to 30 m</td>
<td>Trailing hose applicators &gt;30 m</td>
<td>Heavy incorporation equipment, e.g. compact disc harrows</td>
<td>Trailing hose applicators &gt;30 m</td>
</tr>
<tr>
<td></td>
<td>Trailing shoe applicators up to 15 m</td>
<td>Trailing shoe applicators &gt;18 m</td>
<td>Heavy incorporation equipment, e.g. slurry injectors</td>
<td>Trailing shoe applicators &gt;18 m</td>
</tr>
<tr>
<td><strong>Reinforced rear wall, 8 mm</strong></td>
<td>–</td>
<td>✓</td>
<td>✓ With internal reinforcement</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Bracket for cross bar</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓ Cross bar for upper link welded in place</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Lower link with cat. 3 couplers and safety catches, cat. 2 also available as an option</strong></td>
<td>✓</td>
<td>✓ Additional reinforcement</td>
<td>✓ Additional reinforcement</td>
<td>✓ Additional reinforcement</td>
</tr>
<tr>
<td><strong>Manhole</strong></td>
<td>Flat manhole cover</td>
<td>Flat manhole cover</td>
<td>Manhole on the side or positioned slightly higher</td>
<td>Flat manhole cover</td>
</tr>
<tr>
<td><strong>Hydraulic cylinders with wear bushes</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

**Steel tank**

The forces are well distributed across a large area and are absorbed and distributed by the tank, which is a structural component.

**Plastic tank**

If the design does not incorporate robust additional structures, the forces are concentrated in the frame and can only be absorbed and distributed there. The tank itself does not have a stabilising function.
When using the on-board hydraulic system, the rotary pump has its own aggregate, which drives the pump irrespective of the rotation speed of the tractor’s pto shaft. A speed sensor attached to the pump measures the flow rate so that you can control the desired spread rate continuously and without delay via the on-board hydraulic system. The system therefore pumps up only the required amount and reduces pump wear.

**Benefits of on-board hydraulic system:**
- Precise spread rates depending on your spreading technology
- Low pump wear
- No additional flow meter or reduction gear required

Nitrification inhibitors improve the efficiency of organic slurry especially on light soils. The use of Piadin prevents the leaching of ammoniacal nitrogen, which is available to the crop at any time. Our dosing device for nitrification inhibitors offers numerous advantages. Its storage tank reduces the need for refuelling. Moreover, the device enables you to almost automatically dosage the exact amount of the required quantity per acre.

**Benefits of dosing system:**
- Precise dosing
- Ecological and economic benefits of nitrification inhibitors
- Convenient dosing due to storage tank