



FEATURES

- ⬢ Maximum performance
- ⬢ All Veenhuis injectors can be connected
- ⬢ Double-acting Veenhuis 4-point linkage
- ⬢ Minimal maintenance costs

INTEGRAL TANK

Veenhuis Premium Integral tanks set new benchmarks in terms of efficiency, flexibility and comfort. This product line is based on technology which has proven to be effective in the Profiline segment. The main difference lies in pump technology and different suction arm versions.

INTEGRAL TANDEM		
Capacity	Tank diameter	Tank length
14,850 L	1800 mm	6000 mm
16,000 L	1800 mm	6500 mm
19,000 L	1900 mm	7000 mm
20,000 L	2100 mm	6000 mm

INTEGRAL TRIPLE-AXLE TANKS		
22,000 L	1900 mm	8000 mm
26,500 L	2100 mm	8000 mm
30,000 L	2100 mm	9000 mm
34,000 L	2100 mm	10000 mm

INTEGRAL FOUR-AXLE TANKS		
40,000 L	2300 mm	10000 mm

The centrifugal technology installed in Integral tanks ensures outstanding performance of up to 14,000 litres per minute, making it ideal for working with large working widths. As the technology is not self-priming, it uses a combination pump technology. The combination of a vacuum system and centrifugal technology allows outstanding performance to be achieved during the filling cycle. A vacuum is applied to the entire tank, which ensures that slurry is being extracted continuously. The filling cycle is not interrupted by air bubbles. You can additionally choose between three overhead crane arms and the suction arms from the Profiline segment to cover the full range of requirements. The large, pivoting crane arms are the most flexible suction arms of their type. Left or right, from the top or bottom – with this arm you easily reach any corner. The arm can optionally also be equipped with a submersible pump. All versions ensure that the tank is filled in the shortest possible time. The design of the Integral tank maintains a low centre of gravity and thus provides reliably firm ground contact. Combined with the hydraulic suspension, this delivers high operator comfort. The tank comes with 800/60 R32 tyres and a wide steering angle as standard. This premium product features electronic controls, a powerful 4-point linkage and ISOBUS control as standard. Premium tanks come metallised, painted in yellow and protected with a clear coat of paint as standard, giving these machines the professional aesthetics they deserve.



Overhead docking arm

The overhead docking arm is ideal if only transport vehicles are used. The 8" swivel arm ensures quick and easy docking, whether on the left or right side in the direction of travel. This arm features a centrifugal pump as standard to keep filling times as short as possible. The arm is comfortably operated via a joystick with proportional control. The top arm can be easily returned to its centre position. A display indicates the arm position at any time. Any residual slurry dripping from the arm is collected in a container below the docking attachment once the arm has been returned into its resting position.



Overhead crane arm

The 8" crane arm is the most flexible overhead arm option. Regardless of whether you need to take in slurry from a pit, silo, transport vehicle with docking device or other docking options – this arm lets you meet any challenge successfully. A quick-change system makes for easy switching between suction hoses and docking attachment. Naturally, a centrifugal pump has also been integrated to reduce filling time to a minimum. The additional kink in the arm offers great flexibility, even allowing you to take slurry in from 6 metres depth from a 4-metre silo. The arm is comfortably operated via a joystick with proportional control.





Crane arm with submersible pump

The third variant in terms of crane arms is a crane arm with hydraulically operated submersible pump. Submersible pumps deliver the highest fill rates, as slurry is pushed from the medium. As this technology is not self-priming, it cannot be used to take slurry in directly from transport vehicles or docking devices. The arm can optionally be equipped with a telescopic section to increase its reach even further. An additional kink in this arm again delivers extra flexibility. The arm is comfortably operated via a joystick with proportional control.



Large, pivoting 8" suction/docking arm

The large, pivoting suction/docking arm is the perfect solution when docking at large heights. The arm can be moved both vertically and in the direction of travel. It features a quick-change system, which allows both a suction hose and short docking attachment to be connected. The arm is controlled via a joystick, which can also be used to activate or suspend the filling cycle. The joystick can also be equipped with proportional control for maximum ease of operation. A ventilation valve, which is operated automatically together with the main gate valve, is additionally installed as standard.



Front docking arm

If operators frequently drive in the slurry tracks during application, the front docking arm provides an ideal solution for filling the tank on the side of the field with minimal damage to crops. This offers the advantage that the tank can be filled anywhere that is accessible to the vehicle without needing to fold the injector in. The front docking arm can be mounted to tractors from any manufacturer, and it ensures rapid coupling and uncoupling. A 6" or 8" side gate valve can be installed as an option. As the arm is not mounted to the tank with this option, less weight applies to the tank.



Directly driven spreader pump

Integral tanks feature a large spreader pump, which is driven directly from the PTO and is located directly below the tank to ensure complete drainage. This technology does not require pressure to be applied to the tank during spreading. With a blade diameter of up to 450 mm, high application rates are guaranteed. In contrast to displacement technology, centrifugal pumps of this type are not easily damaged by rocks or other foreign bodies which may be present in the slurry. This system additionally reduces maintenance and wear costs to a minimum.

Hydraulic drive with on-board hydraulics

A separate on-board hydraulic system can be optionally installed instead of using a direct PTO drive. In this case, the hydraulic system drives the spreader pump and turbo filler. This allows the spreader pump to reach even higher speeds, which in turn increases application rates even further. The LS pump version allows the spreader pump speed to be continuously varied. As a result, less tractor power is required for lower application rates or narrower working widths. Together with the turbo filler, the high-pressure on-board hydraulic system delivers unrivalled fill rates.



High-quality vacuum pump technology

The combination of centrifugal and vacuum technology uses a vacuum pump with high air flow and therefore ensures rapid tank filling. As no injection system is used in this case, the tank can be drained fully, and suction intake is more stable. With this process, consistently minimal filling times ensure maximum efficiency.



Comfortable ISOBUS control

Integral tanks feature ISOBUS control as standard. Easy-to-use push buttons and smart control functions, including for headlands, ensure comfortable operation and allow the operator to focus on driving. The linkage pressure control and application rate can be continuously adjusted while driving. ISOBUS control additionally permits the use of application maps and the connection of an NIRS sensor.



Fully automatic dosage

Looking for precise and comfortable manure spreading? The Integral tank can optionally be fitted with fully automatic dosage. The required application rate per hectare is simply entered via a terminal, and the tank does the rest. The operator can focus on driving, and slurry is dosaged out with precision. Wheel sensors measure the speed, and an industrial ball valve controls the application rate. This industrial ball valve prevents pressure drops and variations in system control. The precision of this system is DLG-tested for both high and low application volumes, so that correct dosage is ensured.





Powerful linkage for attaching heavier injectors

The highly robust 4-point linkage (centre distance: 1010 mm) is designed for attaching heavier injectors or injectors with larger working widths. The attachment of the lift cylinders to the tank ensures that power is optimally transmitted to guarantee reliable, thorough operation. The low sub-frame attachment underneath the tank creates an ideal line of traction. As the linkage frame is able to swivel, the attached injector is less affected by uneven surfaces on the fields. The linkage features quick-change hooks, which allow the injector to be changed easily.



Telescopic axle for minimal soil compaction

The Integral tank is optionally available with a telescopic axle, which can be extended by 50 cm on both sides. This ensures that machines do not need to return to the same tracks as often and reduces soil compaction to a minimum in combination with the large tyres, which come as standard with Integral tanks. The Veenhuis telescopic axle is designed for large loads. It delivers outstanding safety compared to other machines, even when working in hilly and mountainous terrain, giving these tanks a unique competitive advantage. The unique telescopic axle design keeps maintenance costs at a minimum and reduces tyre wear.



Tyre pressure control system

A tyre pressure control system not only allows soil compaction to be minimised, but also ensures that tyre wear and fuel consumption can be reduced. A tyre pressure control system comprises a tyre which can be used at low pressure. Veenhuis decided to equip Integral tanks with 800/60 R32 tyres as standard, as these have all the features you expect from low-pressure tyres. Always drive your machines at the optimal tyre pressure under any conditions! If you use a high-performance compressor, you can install a tyre pressure control system on your tractor and control it via the compressor. Veenhuis offers a range of options for this solution.

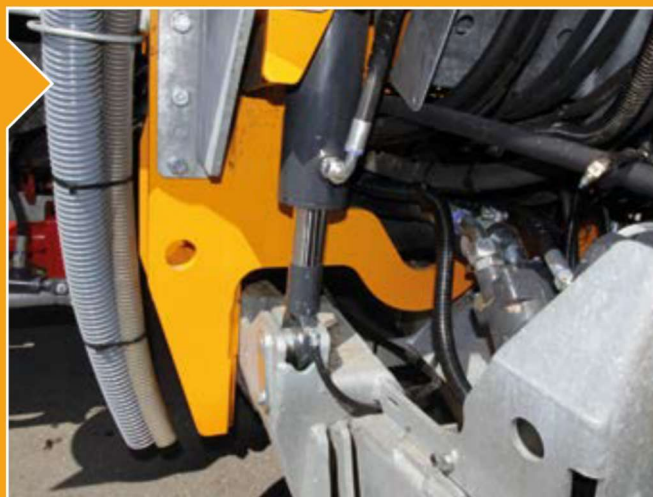


Filling dome

The Integral tank can also be equipped with a hydraulically operated filling dome for external filling. The dome, which has a diameter of 600 mm, can be controlled from the tractor cab. The version with overhead suction arm uses a 14" variant.

Comfortable drawbar suspension

The drawbar features a hydraulic suspension for increased operator comfort and improved safety on roads and fields. The suspension is just as effective with empty and full tanks, ensuring that you enjoy maximum control and optimal comfort while operating the tractor. Ideal in rough terrain! As the suspension cylinders are mounted to the powerful drawbar, both suspension travel and tank position can be set to any height.



Top pressure cylinder for increased traction

A top pressure cylinder can be installed on the drawbar to transfer loads to the tractor's front axle and therefore increase tractor traction. When combined with PremiumControl, the pressure can be set to any required level via the switch box. The system is easily deactivated once the tank is empty to reduce tyre wear to a minimum. When choosing the optional drawbar suspension, the top pressure cylinder is coupled to the drawbar suspension. As a result, power is automatically transferred without you needing to even think about it.



2-chamber technology for maximum traction

Yet another option for your Integral tank is a 2-chamber solution. With this mechanically controlled technology, the front chamber remains full until last. The system retains maximum support loads as long as possible throughout manure application. When combined with an automatic front axle load reduction, it ensures that maximum loads are transferred onto the tractor to deliver superior traction and safety. As both systems are controlled automatically, operators are able to focus on driving the machine rather than controlling it.



Additional equipment

The modular structure of the Profiline series makes various options available for Integral tanks as well, including the filling dome, automatic grease lubrication, LED work lights, toolbox and water tank. Helpful extras for everyday use

