



**Agronic
Slurry Tankers.**

Agronic Slurry Tankers: A low center of gravity and unmatched performance.

Agronic Slurry Tankers: A low center of gravity and incomparable performance. **AGRONIC** slurry tankers are designed and manufactured for demanding use. The chassis manufactured from S355MC steel, for unmatched durability. The wall thickness used in the tankers ranges from 4-6 mm, depending on its position within the structure.

The construction has been optimized for strength, yet still maintaining a low overall weight. The extensive model range is capable of being individually equipped to meet the customer's requirements.

There are four basic models: 10 and 12 m³ single-axle, 15.5 and 18.5 m³ with fiberglass tank, 14, 17 and 20 m³ tankers with suspended bogie axle and steering, as well as 14, 17, 20, 25 and 30 m³ models with hydraulic suspension. Available as tandem and tridem axle models.



The Fg, S, HS and HXA series tankers have an efficient five-bladed, PTO-driven, impeller turbine with double-row roller bearings. The impeller is balanced, with greaseable bearings, and features a triple seal. The impeller shaft is chromed to improve both corrosion protection and abrasion resistance.



The **AGRONIC** tankers have a low center of gravity. The bottom of the tank is designed to have a low center of gravity, allowing for easy operation on side hills, even when fully loaded, and the ground clearance is still maintained at 40 cm.

Depending on the model and size, two or three anti-slosh baffles are fitted inside the tanker.

The tank body also has an epoxy coating on the inside, while the outside is sandblasted and painted with polyurethane paint. A coat of lacquering makes the painted surface durable and easy to clean.

The rolling resistance of the Nokian ELS radial tires is 15% less than with traditional diagonal tires, as well as having a ground pressure of 20% less. The pressure in radial tires can be kept low, providing for smooth driving. The tire tread pattern is also rapidly self-cleaning, ensuring that the mud is kept in the field, and not on the road. The maximum travel speed is 65 km/h.

Agronic tankers provide new possibilities for handling slurry:

- A low center of gravity: Excellent driving and handling characteristics on the road, and in the field.
- The tanker designed to have front empty first, ensuring optimum weight distribution on the drawbar until empty.
- Self-supporting design: No separate frame for the tanker, ensuring a lower overall weight.
- Hydraulic hoses and cables well positioned: Easy cleaning and reduced risk of trapping corrosive dirt.
- Inside like the outside: Epoxy coated, sandblasted, painted, and then lacquered just like the outside.
- Comprehensive choice of accessories, properly dimensioned axles, and high-quality springs.



AGRONIC-XS Single-Axle Slurry Tanker



AGRONIC XS slurry tankers are light and flexible models. Equipped with large tires. They can also be equipped with a pumping arm and different types of spreading ramps.

- Hydraulic discharge pump: No need for a PTO shaft.
- Hydraulic gate valve as standard.
- Mounting points for spreading ramps are standard.
- Fenders as standard.
- LED lighting as standard.
- Two model sizes: 10 m³ and 12 m³.

Outstanding driving characteristics
Low center of gravity, tank positioned directly above the axle.

- Oval tank shape: A trademark of Agronic.
- Low tank height: Optimum drawbar weight is maintained until emptying.
- Twin anti-slosh baffles, in the top and in the bottom.
- High-quality radial tires



1050/50R32 radial tires, lights, and fenders as standard.



AGRONIC-Fg Slurry Tankers with Pendulum Bogie-type Axles.

The chassis of the Fg series are lighter, shorter, and narrower than normal. Thanks to the shape and construction of the fiberglass tank, the center of gravity is kept low. The drawbar is longer than usual, so the trailer is very agile. Even if the tractor is fitted with dual wheels or wider than standard tires.

No compromises in terms of power or equipment fit. For example, the same 5-bladed bilge pump as used as in other Agronic tanker models is fitted. Large Nokian steel-belted radial tires, in combination with a low curb weight, work to ensure low ground pressure.

Comprehensive standard equipment. A suspended tandem bogie axle with steering, hydraulic brakes, 750/55R26.5 steel radial tires, fill level indicator, mounting-points for hydraulic blocks, anti-slosh baffles, spreading (diffuser) plates with a working width from 10 to 25 m, drain valve, wide-angle PTO shaft with shear-bolt protection.

Customize with just the right accessories: U-Control, traffic lights, fenders, 850/50R30.5 tires, side-mounted pumping arm, different types of spreading ramps, etc.

Technical Specifications:

Volume m3:	15.5	18.5
Length to the rear wall of the tank (cm):	776	849
Maximum width cm .:	310	310
Height to the top of the tank cm .:	326	342
Empty weight with standard equipment kg .:	4,800	5,300
Hydraulic brakes.		
Wide-angle PTO shaft		



The side-mounted pump arm has a standard maximum reach of up to 3.2 m (10' 6") and with a telescopic arm a reach of up to 5.2 m (17' 1") is possible. With optional equipment, the load can also be emptied through the pumping arm's foam hose.

The photos show tankers equipped with optional 850/50R30.5 tires, side-mounted pump arm, transport pumping equipment, fenders, road traffic lights, electro-hydraulics, and the double spreader plate.

With the double spreader plate, the emptying speed of the tanker can be almost doubled, but the spreading width is maintained at about 18 meters.



AGRONIC-S Slurry Tankers with Pendulum Bogie-type Axles.



The **AGRONIC**-S series bogie tankers formed the basis for the entire Agronic tanker range, starting back with our first models in 2001. Over the years, the tanker's construction, properties, and usability have been all honed into a seamless design.

The tanker can be delivered with the exact equipment fit desired by the customer. Equipment can also be retrofitted later. Mounting points for injector/spreading ramp are standard.

A generous standard equipment fit, such as a steerable bogie axle with suspension, indicator light for the pressure in the bogie lock system, hydraulic brakes, LED road traffic lights, fenders, filler funnel, and a PTO shaft.



The **AGRONIC** S-Series tankers are equipped as standard with a friction-controlled, parabolic-sprung true bogie supplied by ADR and equipped with hydraulic brakes.

A true bogie axle, always with a minimum load-bearing capacity of 24 tons.

Optional equipment includes pneumatic brakes, forced steering, as well as crab steering.

Nokian ELS SB steel-belted radial tires are standard.

The **AGRONIC** S-series tandem bogie axle tanker with capacities starting at 17 and 20 m³ can be fitted with a separate third axle.

The third axle combines the movement of the tandem bogie, with the stability of the hydraulic suspension. For the third axle, the loading is set to approx. 5,000 kg (11,000 lbs.)

The addition of a third axle reduces the loading on the other axles to a corresponding degree, thus keeping the axle loading below 10,000 kg (22,000 lbs) even for the 20 m³ tanker.

Even the largest tanker can be driven fully loaded, safely, on a public road. The front axle has a hydraulic suspension, with brakes, steering, can be hydraulically raised/lowered, and features **stepless load adjustment**.

When equipped with a third lifting axle, the tandem bogie is positioned further to the rear than with a standard. When the front axle is in the raised position, with the tanker empty in transport, a higher drawbar pressure is obtained. While loaded, with the third axle lifted, additional loading is transferred to the driving wheel. **The result is improved handling and increased fuel economy.**



The new **AGRONIC HXA II System Slurry tankers** with Hydraulic Suspension



The HXA II slurry tankers have electronically controlled and crab steering as standard

The properties of hydraulic suspension include automatic equalization of the pressure between the axles. In three-axle carriages, the front axle lift is standard.

Hydraulic suspension has few parts that require maintenance, the trolley sways less and the center of gravity is even lower.

The tankers narrow frame enables a large turning angle for the wheels and extra ordinary flexibility.

Very Efficient, Accurate, and Easy-to-Use.

The tanker's emptying and mixing pipe system has a diameter of 168-mm. The emptying speed is up to 50 percent greater with reduced power requirements.

When in transport mode, the automatic control system locks the bogie axle into the exact middle position. The tractor and tanker combination does not sway while driving on the road, the vehicle combination is very stable and safe.

As standard, there is a patented forced steering with electronic control, there are no rods or cables on the side of the drawbar, the tractor can freely in either direction. Thanks to the use of proportional hydraulics, the steering is smooth and without unintended movements.

Optional equipment (AIR) central tire pressure adjustment system saves on tire wear and fuel during transport, but also provides the lowest possible ground pressure in the field. It can be automatically pre-set to required pressures with the press of a button. The trailer has its own efficient compressor and the system can also control the tire pressure of compatible tractors.



As standard, the HXA II system tankers have hydraulics and electronic controls that are among the most advanced on the market!

Control with one hand, via a joystick.

7 "color touch-screen.

Flow meter for accurate volume adjustment.

Two cameras as standard: Rearward facing and for the filling pump.

Speed and reversing information from the tractor.

Proportional hydraulics with soft function for smooth and surprise-free control.

Updated function-specifics, as well as LS hydraulics with improved accuracy.



HS series: For Spreading and Transport



Agronic HS series. Tandem and tridem axle tankers equipped with forced steering, hydraulic suspension, and a low center of gravity.

Frame construction, piping, power, and agility are the same as with the HXA series. The principal difference between the two series is a more basic standard equipment and a lower purchase cost with HS series.

The colour of all Agronic trailers can be, within certain limits, be selected at a surprisingly low price.

Custom Made Tanker Body Swap Systems



We manufacture and customize tankers for different types of trucks and trailers. We also supply filling pumps, hydraulic, and electronic control systems.

Below an Agronic 20 m³ HS customized for transport haulage. With forced steering, hydraulic suspension, front lift axle and road tires. The tanker also has an exceptionally low center of gravity, so it is stable even at high speeds. The load can also be emptied with the filling pump.



AGRONIC with Crab Steering



The **AGRONIC crab steering system** enables the trailer to follow offset from the tractor, significantly decreasing soil compaction.

With crab steering, the tanker can be driven sideways on the outer edges of the field, the tractor is kept further away from the ditch edge, and damage to the field surface can be prevented.

The surface area, on which the weight is distributed, is doubled.

The unique frame construction of the **AGRONIC** spreading ramps allows for the ramp to be pulled obliquely in relation to the tanker. In this way, the spreading ramp is still in the right position in relation to the soil.



The pictures speak for themselves. Light loamy soil worked with harrow: on the left without crab-steering, while on the right with crab steering.

Center-Mounted Pumping Arm.



The center mounted **AGRONIC** pumping arm can be swiveled to either side of the tanker. A powerful pinion gear, of the same type used with forestry cranes, is used as the pivoting device.

The pump arm can be optionally equipped with a third link and transfer pumping equipment.

The hydraulic piston motor pump means that the PTO shaft does not need to be engaged for filling.

Fuel consumption decreases and filling is fast work, with a capacity of over 10,000 l/min (gal.).

The pumping capacity remains high even when thick liquid manure is being pumped from great depths.

Technical Specifications:

Piston Motor Pump:	ATwo modelsber MBI 80M7, Oil requirement 80 or108l/min.
Hoses and Dia.:	2x 125 mm
Capacity:	Max. 8.000 or10.000 l/min.
Range:	Over a 1,5m fence , up to 4 m below the ground.
Hydraulic Requirements:	3-4 double acting spools, with constant supply line, and free-flow return
Optional Equipment:	Third arm section and transfer pumping equipment.

Side-Mounted Pumping Arm.



The side mounted **AGRONIC** pumping arm is a low-cost, fast, and easy way to fill the tanker.

The filling is done with a hydraulic pump, with a shredding capacity, that fills the tanker via a 168-mm pipe.

The filling hose with a non-return valve is connected to the bottom of the tanker so that foaming is kept to a minimum.

The pump arm extends and retracts to the slurry tanker a single movement. Optional equipment includes telescopic extension for the arm and transfer pumping equipment. With the telescopic extension, the pumping depth can be increased up to 5.1 meters.

The side-mounted pump arm can also be easily retrofitted to other brands of tankers.

Technical Specifications:

Standard Hyd. Pump Motor:	Danfoss OMR 50, oil requirement 50 l/min.
Piston Motor Pump:	Two models, Aber MBI 80M7, Oil requirement 80 or108l/min.
Hose dimensions:	1x 168 mm
Capacity	Max. 5500, 8000, or10.000 l/min.
Range	In standard 3,4 m below ground.
Hydraulic Requirements:	2-3 double acting spools, with constant supply line, and free-flow return.
Optional Equipment:	Transfer pumping equipment, telescopic arm extension for depths up to 5.1-m

AGRONIC Trailing Shoe injectors and AGRONIC Dribble Bar Ramps.



The **AGRONIC trailing shoe injector** makes it possible to spread liquid manure on to grassland during the growing season. The nutrient loss and unwanted odors are kept to a minimum, while the period for spreading liquid manure can be extended.

The spring-loaded knives create a 5–40 mm deep incision in the ground at 30-cm intervals, into which the slurry is carefully injected by the nozzle.

The trailing shoe works extremely well, even on light soils and on after crop stubble.

Thanks to the articulated frame, **the trailing shoe ramp accurately follows the tanker through turns, even with crab steering.**

Folding for transport is automated, and the ramp is compact in the transport position.

AGRONIC dribble bars are available in two models, with working widths of 12 or 16 m. The dribble bars hoses have an inside diameter of 50-mm, and depending on the working width, there are 40 or 54 hoses, with an inter-hose spacing of 30-cm.

The hoses are equipped with supports ensuring they stay straight during transport and working positions. The hoses consist of three parts, with a closed end design to prevent entanglement.

The hoses are turned to the drip stop position automatically



Each knife individual knife is equipped with suspension. The frame of the spreading ramp can be angled and rotated independently of the tanker.

The angle and rotation are dampened by shock absorbers so that the spreading ramp follows the ground surface closely, and top-quality results are achieved in all conditions. Even on uneven fields with open ruts.

The slurry is dosed in a furrow with 12 mm wide rubber nozzles that follow the soil surface



Technical Specifications

Model	Trailing Shoe			Dribble Bar	
Working width:	8 m	12m	15m	12m	16m
Distributor Head:		4 directions			
Number of hoses:	26	40	54	40	54
Oil Flow Requirement min.:		30l/min			
Coulter Spacing:		30 cm.			
Coulter Pressure:		15 kg/insert			
Spreading Plate		Optional equipment			
Hydraulic Stone Trap:		Standard equipment			
Automatic Working Depth Control:		Not required, not available			

AGRONIC AG 8000 - Disc Injector Spreading Ramp

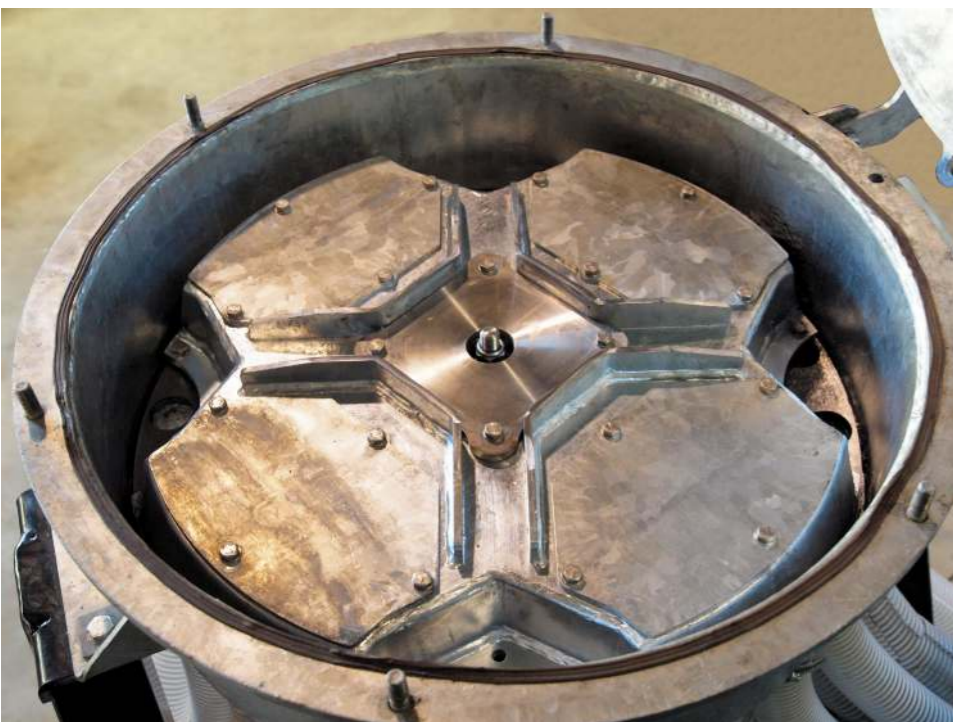


The AGRONIC disc injector follows the ground surface closely, the frame features a center articulation point, allowing the outer sections to follow the contours of the ground surface.

The discs 50cm travel height, allowing them to effectively clear obstacles.

The open frame design, along with a reduced traction requirement, make it possible for the disc injector ramp to be used on ploughed ground.

The optional following harrow can effectively replace a pass with the cultivator.



The cutting blades are manufactured from HARDOX wear plate. The distributor can be rotated in both directions and the knives are reversible. The standard hydraulic stone trap can be easily opened from within the tractor cabin.

Chopping or shredding of the material takes place in two steps. The slurry is directed pass through the chopping device in the upper part of the stone trap before heading to the distribution beam. In addition, it is chopped at the ends of the distribution beam.

AGRONIC disc injector makes it possible to spread slurry during the growing season directly in to growing crops.

The nutrient loss and unwanted odors are kept to a minimum, while the period for spreading liquid manure can be extended.

The disc ramp frame can support up to 40 discs with spring security.

The slurry is applied into the groove cut by the discs at the desired working depth. Since the slurry is not applied unnecessarily deep and the furrow is not made unnecessarily large, the traction requirement is kept minimal.

The disc/nozzle injector combination also works on stubble and in fields with high-grown vegetation

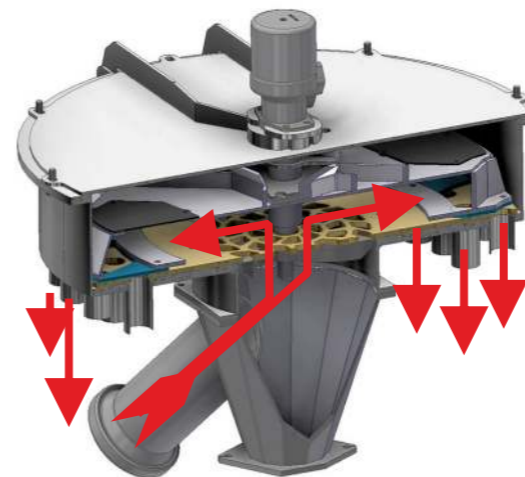
The slurry is pumped from the distributor through hoses with an optimal diameter of 50-mm. The flow rate is high enough so that no sludge collects in the hoses. The hoses have no connections or restrictions that can collect sludge, on the way down to the 12-mm wide rubber nozzles. The rubber nozzles are blockage free in operation thanks to their design and the material from which they manufactured.

The spreading ramp can be angled independently of the tanker, with movements being controlled by dampeners. The outer arms and center frame are equipped with pressure accumulators, **while the entire injector ramp can follow the contours of the ground independently.**



The individually mounted cutting discs have a diameter of 300-mm, are manufactured from **wear-resistant boron steel, and feature conical ball bearings.** The discs have a thickness of 4-mm, have a cutting angle of 1.5 degrees, providing an opening of 11-mm.

An optional furrow opening disc, which produces a cut of 18-mm can be fitted. Optionally, two additional spacer rings can be fitted.



Technical Specifications

Distributor Head:	4-knives
Hoses:	40 or 26* pcs. with a dia. of 50-mm
Oil Requirement:	30 l/min
Working Width:	8.0 m (AG8000) & 6.4 m (AG6000)
Disc Spacing:	20-cm.
Coulter Pressure:	Max. 245 kg/disc
Base Curb Weight:	1850 kg & 1450 kg*
Overload protection:	Accumulators with safety valve. * for a 6.4-m injector

Operation and Control with a Joystick.

We use control systems manufactured by ProDevice Oy. The control systems and programs are manufactured in Finland. Thanks to close collaboration, it is easy to develop software and functions in a customer-oriented manner.

The CAN bus provides for an easy connection between tractor and tanker. It is also easy to expand the control functions.

The electric valve block only requires a pressure connection and free return to the tractor. The operations of the filling pump are connected to the system.

Operation is done with a joystick. The handling of the pump arm and the spreader is logical and simple. Functions that can be locked in active mode, such as the control of the distributor and bogie, by the use of toggle switches

The joystick can be supplemented with a driving computer: With the help of a driving computer, it is easier to use the tanker and follow up on the amount of cubic meters that have been spread, the working hours and the areas. Automatic volume adjustment is also included as standard equipment.

The trip computer also includes an automatic sequence feature that facilitates use. At the touch of a button, the spreading ramp is lowered, the distributor starts, and the application rate control begins. With a second push of a button, the spreader is lifted and so on. Automatic locking of bogie and rotation disengagement of the distributor is standard.



Agronic In-Control

Standard in Agronic HXA II models
Control with one hand, via a joystick. 7" color touch-screen.



Agronic U- Control

With the help of U-Control, the bogie locking routines are handled automatically, and completed runs are saved in memory locations that can be named. Exact information on speed, distance, and direction of travel is obtained directly from the tractor

Optional equipment.

Ball Coupling: Depending on the tanker size, the normal service life of towing eye is limited. The ball coupling has a lubrication point and a large surface to eliminate play.

With a **weight transfer cylinder**, weight can be transferred between tractor and tanker as needed. The pressure accumulators on both sides of the cylinder piston allow the cylinder to move while driving on the road, so the cylinder replaces a drawbar suspension system.

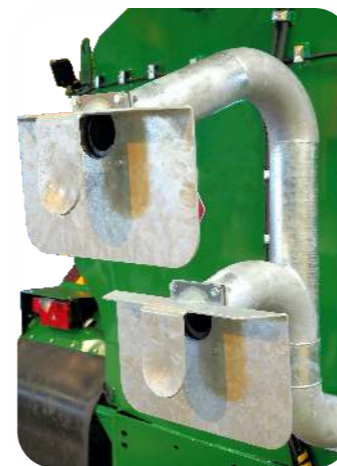
Transverse mixing screw for swine slurry: The screw moves and mixes the slurry towards the suction opening of the pump. The circulating and mixing action of the screw work together ensure that even slurry with a heavy sediment content is easy to spread.

Bauer-type quick couplings for lower filling: The foam coupling pipe goes to the highest point in the tanker. The couplin has a non-return valve that prevents the tanker from being emptied with a siphoning action.

Central lubrication or centralized lubrication: Minimize the time required for service. An electric central lubrication system saves on working hours and ensures maximum service life for joints and bearings. Available in two versions: with electric pump or as centralized lubrication with manual grease gun.

Hydraulically driven Compressor: For the central tire pressure regulation system.

Diffuser Plate: Applies the slurry directly to the side of the tanker. The spreading width depends on the PTO speed and the direction of the emptying valve, but is in the range of 10–25 m. Faster emptying can also be achieved with a double diffuser plate (not available for XS models).



Technical Specifications:

Optional equipment: Note! Check the need for optional equipment and their suitability with our experts.

Mixing/circulation screw (auger), lower filling quick couplings and foam pipe, hydraulic or mechanical filling hatch, trailing shoe injector (8-12-15), dribble bar spreading ramp (12-16 m), disc injector (8 m or 6.4 m), extra discs for the injector, hydraulic stone trap, three-way valve at the rear of the tanker, spreader/plate can be selected directly from the cabin, center or side mounted pumping arm, third link, transfer equipment for pumping arm, steering with control lever, trip computer and automatic volume control, automatic working depth adjustment for the injector, forced steering, weight transfer system, ball coupling, crab steering, splash guard, four-wheel brakes, hydraulic third axle, LS hydraulics, etc., piston filling pump, various tire options, central lubrication, centralized lubrication, double spreading plate, tire pressure control system

Volume m³	10xs	12xs	14	15,5Fg	18,5Fg	17	17	20	20	25	30
Axles	1	1	2	2	2	2	3	2	3	3	3
Height to top of the tank cm	269	269	280	326	342	287	270	295	295	316	317
Length cm	662	697	808	776	894	870	949	938	938	938	1064
Width cm	299	299	316	310	310	328	316	328	328	328	328
Weight kg	3580	4290	5150	4800	5300	6150	8600	7600	9300	9500	10530
Tyre dimension from	1050/ 50R32	1050/ 50R32	750/ 55R 26,5	750/ 55R 26,5	750/ 55R 26,5	850/ 50R 30,5	750/ 50R 26,5	850/ 50R 30,5	850/ 50R 30,5	850/ 50R 30,5	850/ 50R 30,5

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