

*Vredo*

# VT5536



**Your fields, our passion**



**Driven by passion, proven  
by performance**





# Premium quality in slurry application

22m<sup>3</sup> capacity – 9.000 litre/min – positive displacement pump – 50-50 weight distribution – 550 HP Scania DC13



VT: Vredo Trac  
55: 550 HP  
3: 3rd series  
6: 6-cylinder engine

## Maximum performance

A maximum performance, no matter what conditions. A 9m<sup>3</sup> positive displacement pump is used to fill the system. A 18m<sup>3</sup>/min centrifugal pump which is integrated into the suction arm and with a bypass-system, is used to fill the tank very quickly. The pump is fed by a flexible and manoeuvrable 10" suction arm with turbo filler.

## The ideal working place

The sprung, clear-vision cab with intuitive controls, provides the perfect environment for long working days. Automatic functions help to reduce the workload and the high comfort level ensures that working with the machine is a real pleasure. The sprung front axle and the engine which is located far from the cab aid this. The driver is also exposed to a minimum amount of vibration, noise and heat.

## Everything in the right spot

With our solutions for smart farming, slurry is applied only where it is needed and in the right amount. Aside from RTK-GPS controlled section control, a NIR-sensor is optionally available. Telematics help to follow the machine remotely.

## Light weight slurry tank

The 22,000 litre tank is made from light weight and extremely durable GFK polyester. The low centre of gravity helps to keep the machine stable, even in hilly terrain. On top of that, the weight of the machine, both empty and full, is perfectly balanced.

# Added value with every detail



## 1. Motor

- Scania DC 13 6-cylinder diesel engine with 13L displacement
- 550 HP / 405 kW engine power. Max torque 2,480 Nm & 1,400 rpm
- Emission class Stage V with SCR technology
- Fitted with air compressor

## 2. Hydraulics & linkage

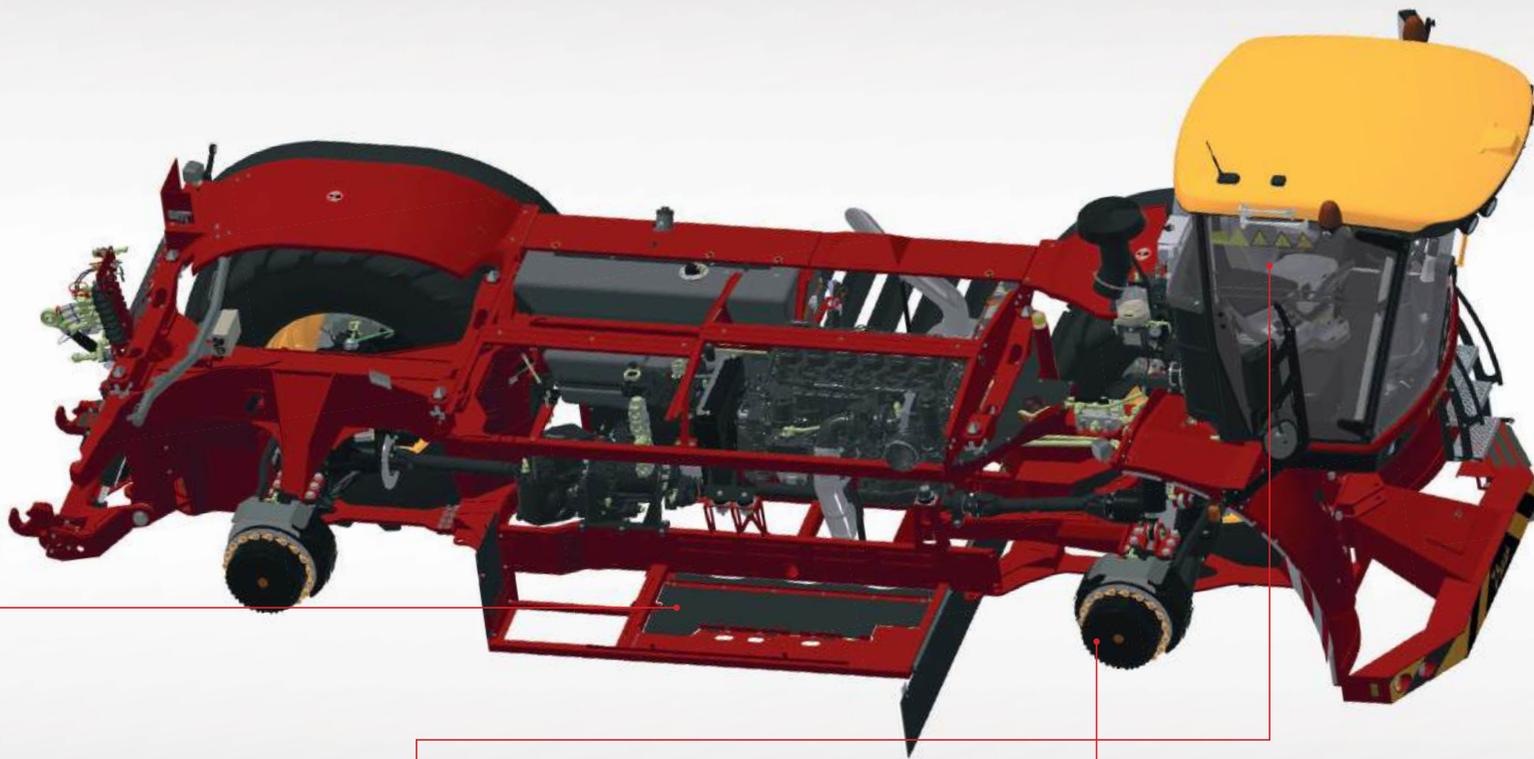
- 4 double action hydraulic couplers
- Actively controlled contour following of the slurry applicator
- Left and right turning crab steer with steerable linkage
- Active suspension during road transport – torsion suspension in the field
- Interchangeable cat 4. lower link hooks

## 3. Suction arm

- 10" suction arm with compact design
- Automatic functions for folding in and out, minimalises cycle time and makes working with folded-out arm obsolete
- Different docking options
- 160 degree swivel

## 4. Tyres

- Michelin CerexBib2 900/60R42 or Mitas 1000/65R32
- 520/85R42 + 380/90R50 row crop tyres
- Automatically controlled tyre inflation system (optional)
- Very small turning circle



#### 5. Drivetrain

- Complete mechanical drive, 100% differential lock
- Infinitely controlled transmission from 0 – 40 km/h
- Controllable four-wheel drive or rear wheel drive for road transport

#### 6. Cab

- Claas cab with semi-pneumatic suspension
- Touchscreen controls with control console integrated in armrest
- Automatic controls for most-used functions
- Climate control, Grammer Maximo Super drivers seat

#### 7. Chassis

- Driven steering axles – 100% differential lock
- Crab steer: every wheel follows its own track
- Front axle hydraulically suspended
- Disc brakes, hydraulically operated and double disc callipers on front side. Sprung controlled parking brake on rear axle

# Slurry & pumping system



## Lightning fast filling and emptying

By means of a newly developed filling system, the VT5536 has an increased filling capacity. A Vogelsang 9m<sup>3</sup> positive displacement pump creates a vacuum. Once this has been done, a centrifugal pump takes over part of the filling through the 10" suction arm. When the slurry flow is high enough the centrifugal pump pushes the slurry in to the tank, by means of a bypass. The slurry is thus not slowing through the positive displacement pump, which means less wear on the pump lobes. With a normal viscosity of slurry, the tank can be filled in 1.5 minutes. The tank is fitted with a separate air outlet for filling.

## Unloading capacity

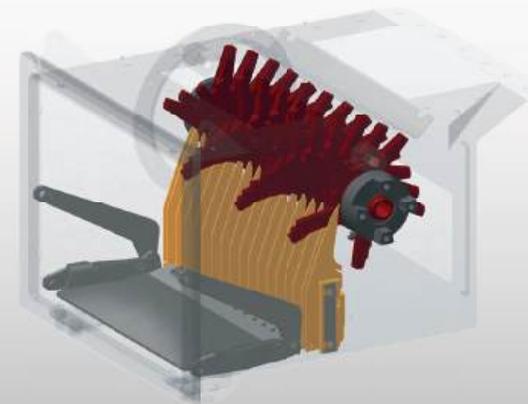
Unloading is also done via a new system. The slurry is passed through a discharge centrifugal pump mounted at the bottom of the tank, by mean of an 8" pipe and then sent to a three-way valve at the rear of the tank. When applying slurry, the correct amount is controlled via dosing control, which works independently of driving speed. At the headland, as the driver stops applying slurry, the three-way valve is switched to another position. The slurry is circulated in the tank. This results in a more accurate slurry application, higher capacity and less wear on the pumps. For unloading, two aeration openings at the top of the tank ensure sufficient air intake.

## Weight distribution

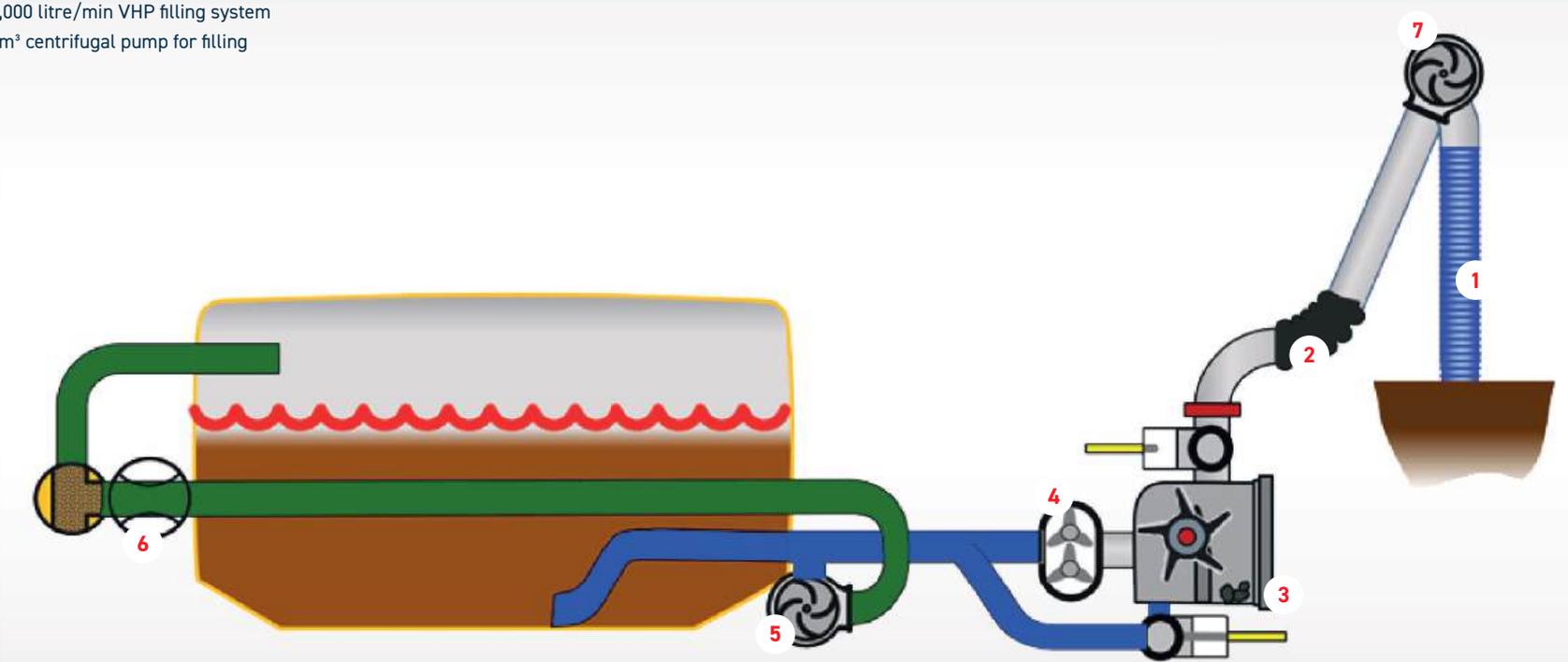
By mounting the pump and slurry technology at the front of the machine, the best possible weight distribution is achieved. The engine and complete driveline are located below the tank, which gives the machine a low centre of gravity. This greatly aids stability in hilly terrain. Thanks to clever positioning of the engine, the driver is adequately situated to reduce operator fatigue due to vibrations, noise and engine heat.

## Our strong points

- GFK polyester tank with 22m<sup>3</sup> capacity
- Hydraulically tipped tank for cleaning and maintenance
- Slurry circulation system as standard
- Centrally mounted for optimal weight distribution
- Low centre of gravity which aids stability



1. 10" suction arm, filling hose or docking load arm
2. 160° swivelling suction arm for maximum flexibility
3. Vredo FT6200 slicing filter
4. Vogelsang 9m<sup>3</sup>/min positive displacement pump for filling the system
5. 16m<sup>3</sup> centrifugal pump with bypass system
6. 18,000 litre/min VHP filling system
7. 18m<sup>3</sup> centrifugal pump for filling



# Suction arm



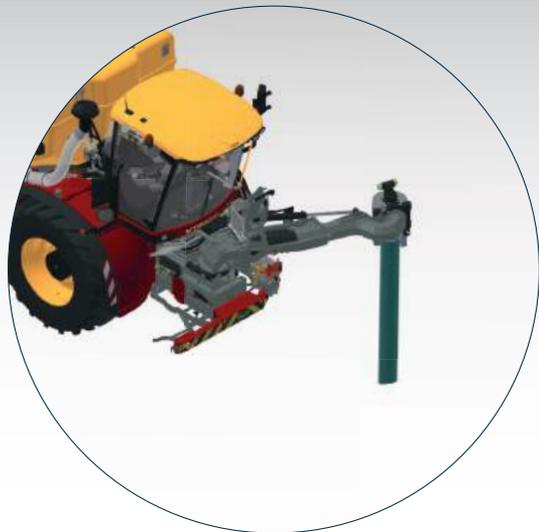
The VT5536 comes with a multifunctional suction arm as standard at the front of the machine. Thanks to our unique design, the suction arm has 160° movement, which means that it can be used, both at the side and the front of the machine. In every position, the driver has an unhindered view of the arm without having to look back.

## Filling in no-time

Because of the mounting position of the suction arm, it doesn't have to be positioned at the rear of the machine during transport. This means that filling the machine can be done in no-time and that there are no obstacles when swivelling. The optional turbo filler helps to further cut loading time.

## One suction arm – all the solutions

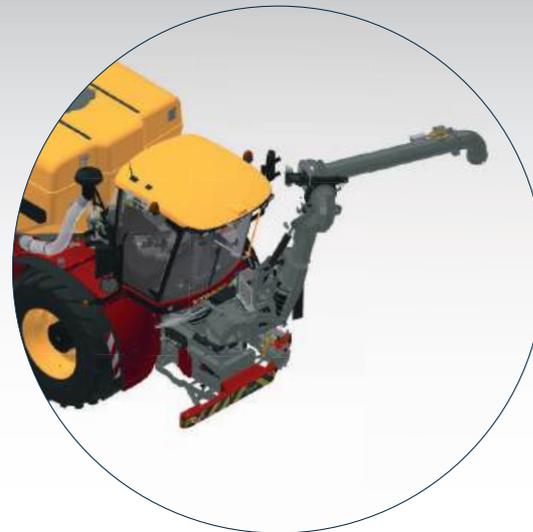
The cleverly designed suction arm makes it possible to use one multifunctional arm for all possible configurations. The standard suction arm can be used to fill from a slurry pit or slurry container. By adding a docking coupling, slurry tankers can be emptied efficiently, at the front or side of the machine. A swivelling coupler makes it possible to fill the machine using a 6" flexible hose. With the help from an optional quick coupler, it is possible to easily switch from a docking arm to a suction hose.



1. Standard suction arm



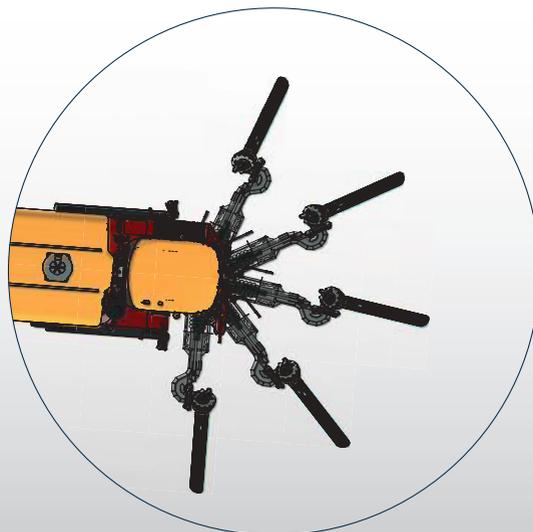
2. 6" hose connector



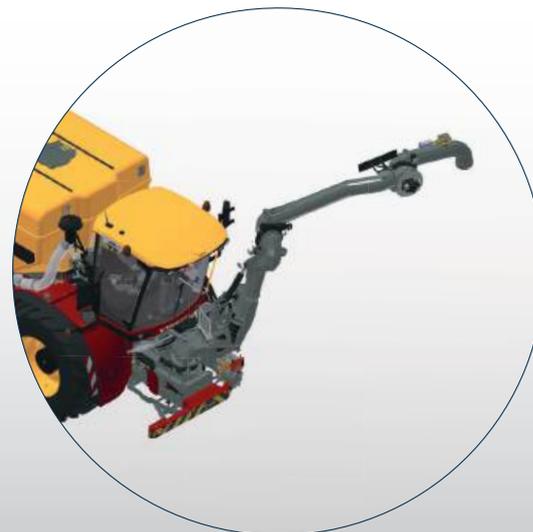
3. Docking suction arm



4. Standard suction arm with optional turbo filler



5. 160° swivel



6. Docking suction arm with optional turbo filler

**With Vredo you invest in maximum efficiency and unrivalled capacity with retention of soil quality**



# Weight distribution



50%

50%



The optimal weight distribution is crucial to prevent soil compaction and maximise the machine's performance. That is why the VT5536 is designed with a 50/50 weight distribution regardless of the filling level. This means that the rear wheels always have enough pressure applied to them, so the maximum amount of traction is achieved; that is why the machine can deliver an optimal performance on hilly terrain.

## Always the right weight distribution

- Optimal 50/50 weight distribution because of centrally mounted tank, engine and pumps
- Lowest weight in its class
- Extreme short attachment of application – minimal weight transfer on to rear axle
- Hydro-pneumatic transmission for maximum torque, despite the load

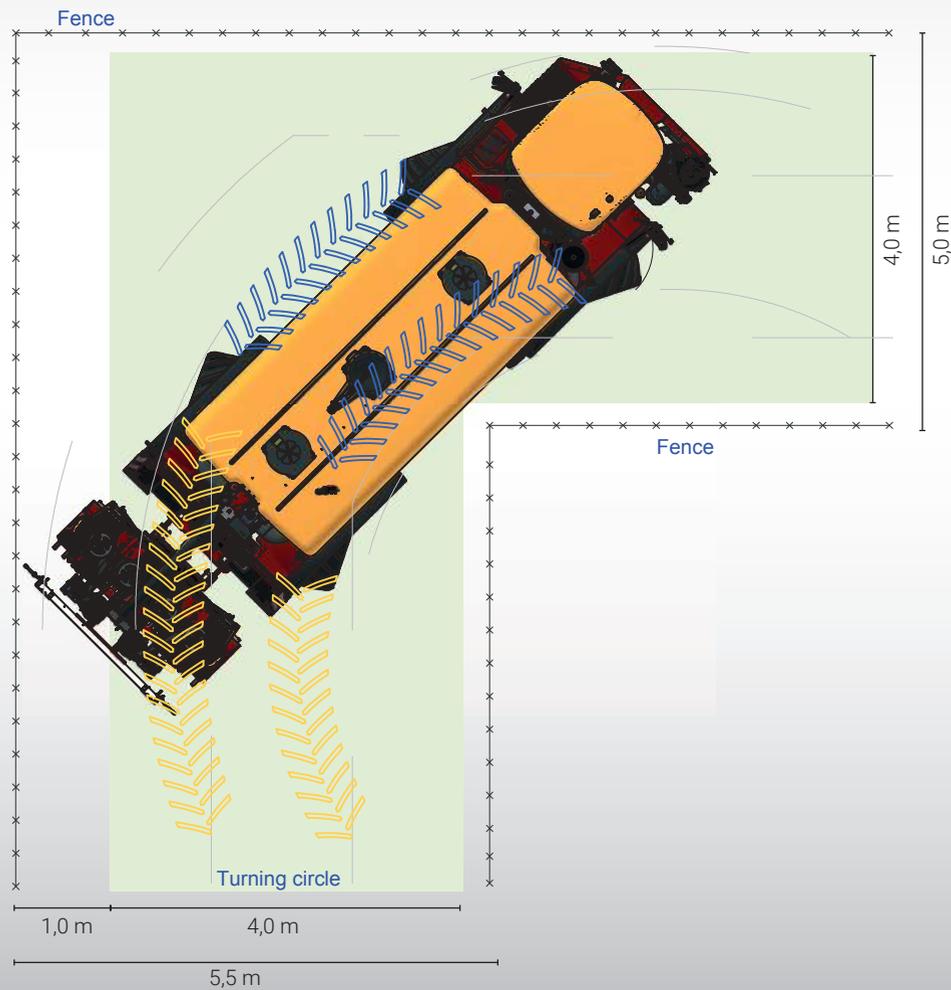
The VT5536 with its exceptionally low fuel use per hour, hectare and cubic meter of slurry is both equally at home in the mountains as well as the flat polders of Holland.

## Tyre choices

- Michelin Axiobib 2 900/60R42
- Mitas 1000/65R32
- 520/85R42 + 380/90R50 row crop wheels for crops on 75 centimetre
- Michelin CerexBib2 900/60R42 CFO 1995A8

# Sporen VT5536

## Turning into the field

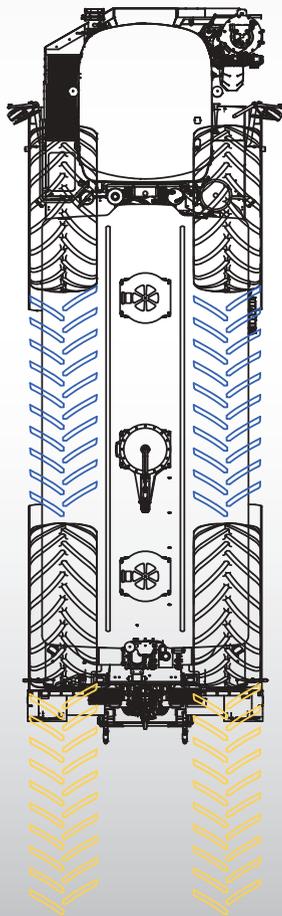


## Extremely manoeuvrable

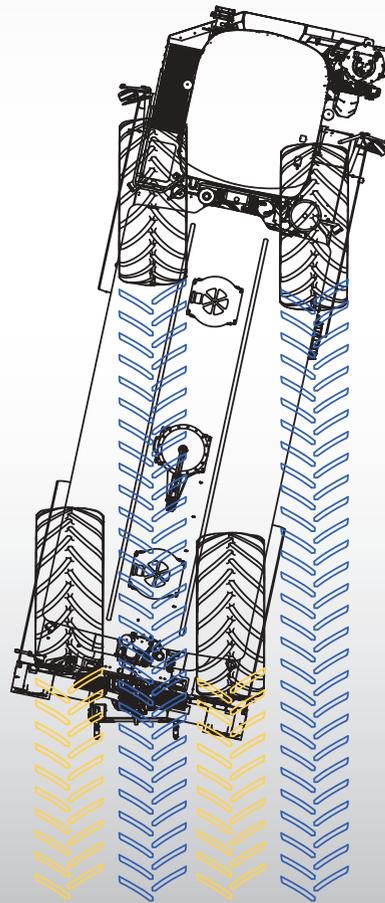


## On the road and in the field

Road transport



Fieldwork



## Every wheel its own track



# Driver comfort

## Experience ultimate driver comfort with Vredo

During the season every hour and every cubic metre counts - we fully realise this. Comfort and ease of use for the driver are of the highest importance to Vredo. When developing the drivers' controls, we put the operator's convenience at the centre. This helps with the long working days and makes working with the machine a real pleasure.

## Intuitive controls

At Vredo we put a lot of thought in creating clear and ergonomic controls. All control elements are within an arms reach of the driver, located centrally in the arm rest of the driver's seat. With the multifunctional joystick, all important functions can be controlled with just a touch from your thumb. Clever software, with automatic functions for the most common tasks, improves operator experience. The VT5536 is fitted with a separate joystick for the suction arm. All data is displayed and registered in the 12" terminal. The terminal can record the amount of slurry applied, hectare worked and fuel usage for each customer and automated functions mean that you can focus on what is most important - achieving optimum results.

## Built around the driver

Since our first Vredo Trac over 30 years ago, we have put the driver at the centre. The luxurious cab is fitted with a comfortable, actively suspended Grammer seat. The driver is adequately situated from heat sources and vibrations and climate control helps to make it the perfect working place. As the VT5536 has no bonnet, not only does the driver have an excellent view at the front of the machine, but also the side.

The suction arm is neatly folded up when working in the field and becomes almost invisible behind the cab's A-pillar. This enables an unobstructed view over the shoulder and in the big mirrors. Cameras help with 360-degree vision and creates a safe working environment. The sprung front axle and linkage also aid the operator's comfort of the machine. Both in the field and on the road, the VT5536 is extremely manoeuvrable which makes it feel at home on all terrains and thanks to the equal torque distribution per wheel, the VT5536 effortlessly tackles even the steepest hills.

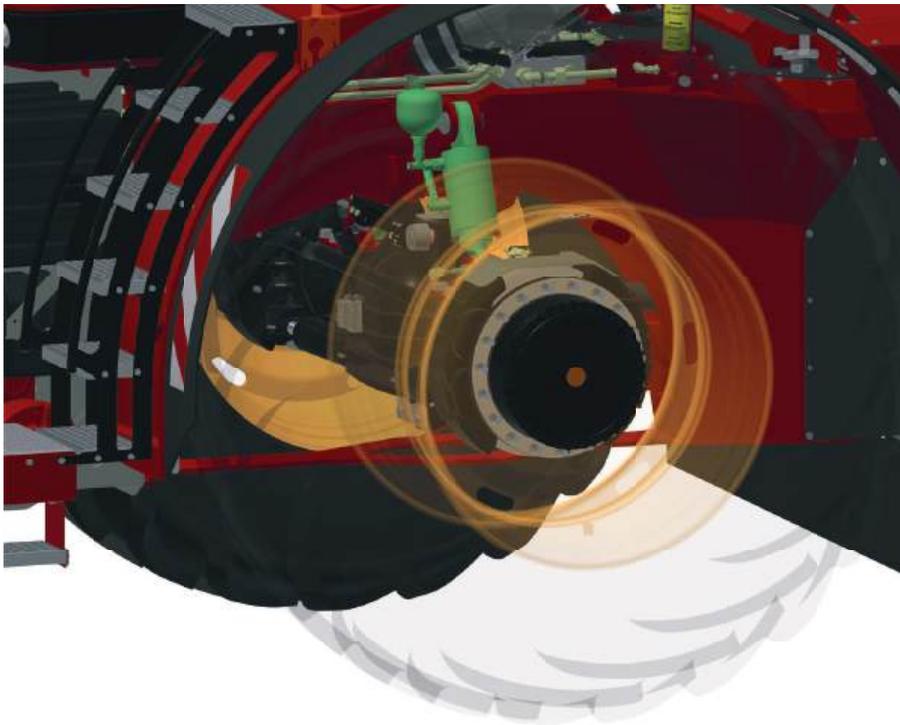
With Vredo you chose more than just precision and return on investment – you chose the ultimate working comfort under all circumstances. Get in and find out!

## Cab

- Coil-spring suspension. Rear side coil suspension with shock absorbers
- Air suspended Grammer seat
- Windscreen wipers on front and side windows
- Minimal noise due to mid-positioning of engine
- Touchscreen with important machine parameters and slurry application controls and integrated camera view
- Intuitive controls with remote assistance
- Ergonomic joystick controls
- Separate joystick for suction arm controls and PF-unit
- Standard reversing camera with colour integrated in terminal
- Perfect all-round vision thanks to four pillar cab with large glass area
- Suction arm transport position behind cab A pillar for minimal visibility blockage
- Large, electronic and heated mirrors for maximum view
- Climate control
- Comfortable passenger seat with integrated cooling compartment (optional)



# Our machines are developed with the driver in mind



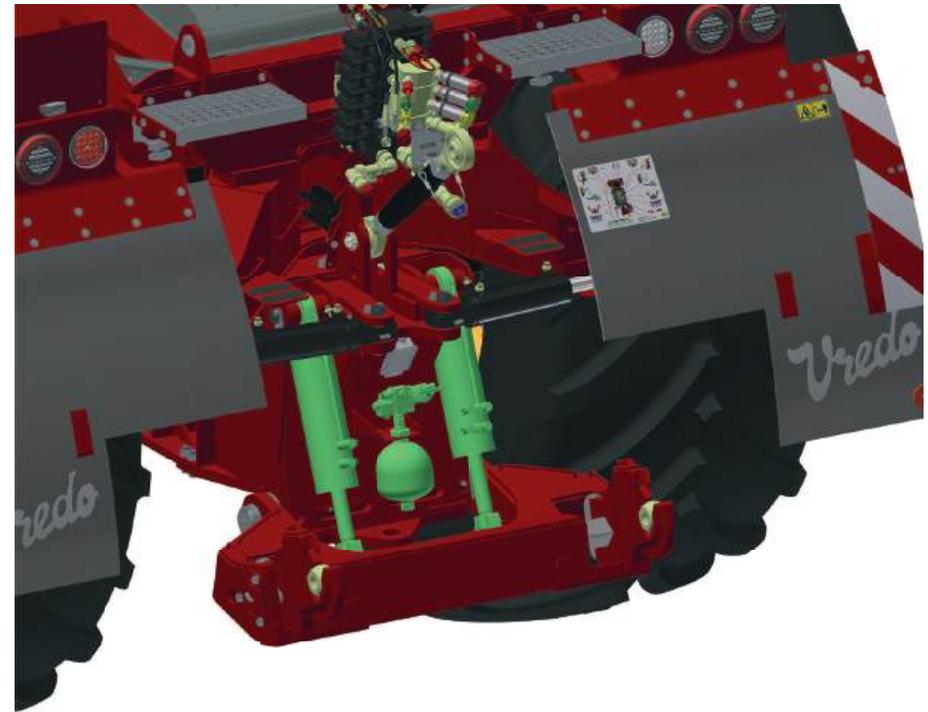
**Unmatched driver comfort** - thanks to axle suspension



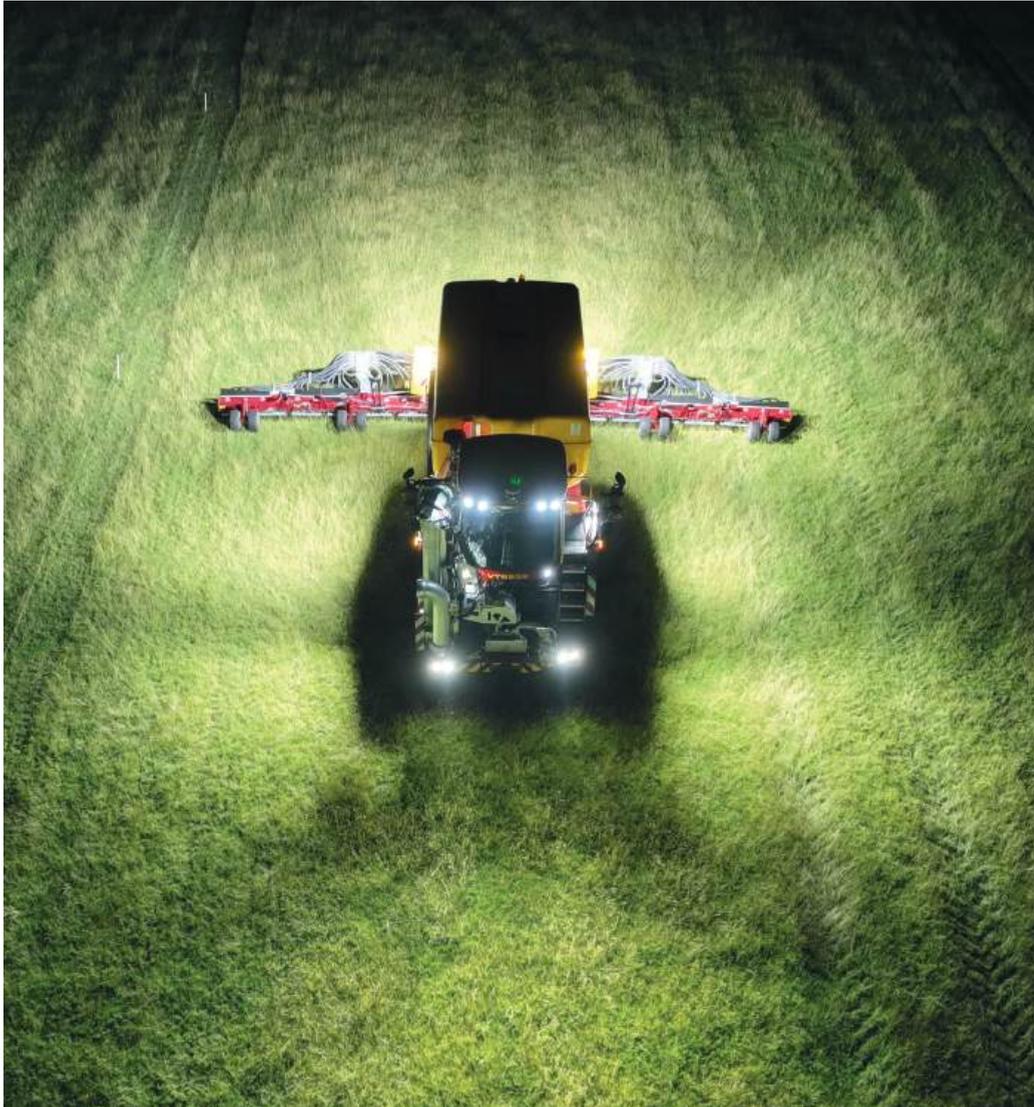
**Quiet and suspended cab** - comfortable working days



**Ergonomical seat and controls** – all control elements within reach



**Protection of applicators** – suspended hitch absorbs shocks and improves driving comfort



# Maximum productivity – day and night

Work doesn't stop when the sun goes down. That is why the Vredo VT5536 is fitted with powerful LED lights, this means that work can continue safely in the dark. Whether it is early in the morning or late at night, the view of the machine and work result is always perfect.

## Standard LED package

- LED spotlights for 360-degree lighting
- Clever positioning prevents shadows and blinding
- Day lighting integrated in the front bumper
- Cab lighting and display for optimal driver comfort



# Seasonal performance

The VT5536 combines the best of both worlds: a high loading and spreading capacity combined with a highly manoeuvrable and user-friendly machine. Whether you are looking for the highest capacity when applying slurry or working quickly on small fields, the VT5536 is the right machine for every job.

## Mountain king

Thanks to its large horsepower rating of 550 HP, and a maximum torque of 2,480 Nm & 1,400 rpm, the VT5536 is the best choice for hilly terrain. We developed the VVT550 transmission with a single operating range of 0 to 40 kph especially for this machine. The machine can be used together with Vredo's own disc injectors, a cultivator-injector and trailing shoe injector, and combined with the unique Vredo SSU it is even possible to use an umbilical system.

## Lightning fast filling

Thanks to the Vredo High Performance Load Technology the 22m<sup>3</sup> tank is filled at lightning speed time. A 9m<sup>3</sup> positive displacement pump is used to start filling the system and the slurry is then loaded via a 18m<sup>3</sup> centrifugal pump using a bypass. Thanks to this system the tank is filled rapidly.



# precision slurry application

## Every cubic metre in the right place

Modern agriculture demands precision and with Vredo you are getting the maximum out of your soil and crop. GPS, NIR technology and precision agriculture play a decisive role. Clever systems make sure that the slurry is only applied in the right spots and at the right amount.

## Efficient – sustainable – profitable

By using precision farming you are lowering emissions, preventing run-off and helping to create healthy soils that are more profitable. With the advanced solutions from Vredo you chose efficiency, sustainability and profitability.

## Steering systems

The VT5536 can be fitted with an integrated RTK-GPS steering system from the factory. John Deere and Trimble systems are available for centimetre accurate steering. Automatic steering helps to reduce driver fatigue and prevents over or underlap. Lap after lap, hour after hour.

## Section control

The RTK-GPS system can optionally be combined with an Isobus section control system for the slurry applicator. This prevents over or under dosing of slurry on the field and on headlands. The system can control up to a maximum of 16 sections automatically and these are controlled lightning fast on the headland, to prevent overlaps.



## Real-time slurry analysis for maximum precision

Every cubic metre of slurry is different, and the exact nutrient content of nitrogen (N), phosphate (P) and potash (K) can differ strongly. With help from a NIR sensor (near-infrared) you always know exactly what amount of nutrients are applied and fine-tuning this helps to give the perfect application for each crop.

## Valuable insights

Vredo offers an integrated NIR sensor. This system analyses the product real-time for an accurate application. This does not only create valuable insights into the slurry or digestate that is applied, but it also makes it possible to apply rates that match the required amount of N, P or K. Aside from this, it is possible to apply limit values and work with site-specific application based on task maps.

## Added value

Using NIR technology provides added value, both for the farmer and contractor. The customer ensures that he or she knows the exact dose of NPK that is applied on the crop. For the contractor it gives a distinctive system that can help to generate more work and reach new customers.



# Maintenance

At Vredo we understand that time is of the essence during the working season. That is why our machines are developed with ease of maintenance in mind. With thought out details and clever technology, we keep daily maintenance of our machines simple. Thanks to the easily accessible maintenance points, daily maintenance can be carried out in a matter of minutes, making sure that your machine is working reliably and optimally.

## Accessibility

The engine compartment, hydraulics and pumps can all be easily accessed for daily maintenance checks and the number of greasing points has been kept to a minimum. An automatic greasing system is installed as standard, which means that this area hardly requires attention from the operator. This ensures that the machine is kept in top condition, without any bother.

## Service

Central to the development process of the VT5536 is a low TCO (Total Cost of Ownership). An investment in a Vredo TRAC is an investment in reliability and efficiency. We have assured only quality, durable parts have been used and wear is kept to an absolute minimum. A Vredo machine is known for its long lifespan, low maintenance requirements and high residual value. With Vredo you don't just chose a machine that delivers today, it's an investment that pays for itself, year after year.



# Reliability that you can count on

At Vredo our involvement doesn't stop when a machine has been sold, our service will always be available. Like no one else, we understand that it is important to prevent downtime and with 50 years of experience, we deliver service that you can rely on. This work ethos is shared by our dealers and our dedicated team is always accessible.

## Support: always and everywhere

- Expert service team with in-depth knowledge
- Fast delivery of parts
- 24/6 support during the season
- Remote assistance
- Expert dealer partners

Our remote assistance system helps us to check on your machine from the factory. This gives the service team an advantage as they can follow the machine live and directly come up with the right diagnosis, which often leads to problems or malfunctions can be sorted out right away.

## Vredo is always there

Thanks to our extensive European dealer network, there is always support available near you. Thanks to a swift logistic chain, spare parts and wearing parts are usually available locally, this reduces the amount of downtime whilst waiting for a part.



**VT5536 - The best of 2 worlds**

Scania DC13 550 PK/2.480 Nm - 22m<sup>3</sup> capacity - For fields big and small



**VT4556 – The compact powerhouse**

Scania DC13 450 PK/2.275 Nm – 19,5m³ capacity – 50/50 perfect weight distribution



**VT7138 – The capacity king**

Scania DC16 710 PK/3.320 Nm – 32m³ capacity – Unrivalled capacity



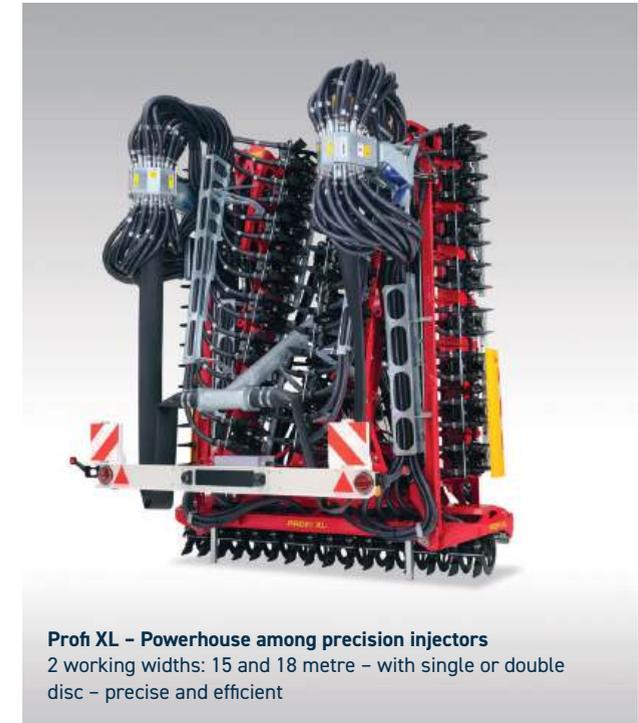
**Profi Eco – Simple and precise**

3 working widths: 6, 6.75 and 7.5 meter – with single or double disc – Simple in maintenance



**Profi – Big in performance**

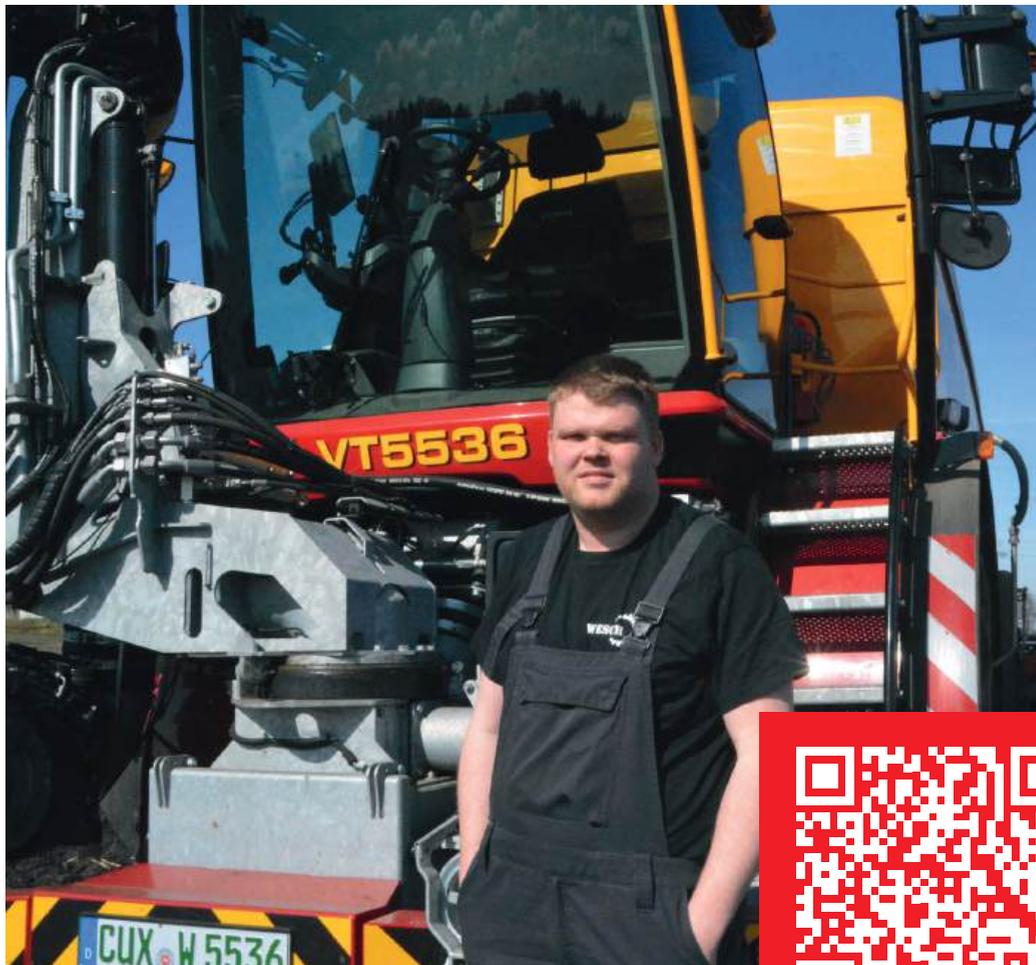
3 working widths: 8.25, 9.0 and 12 metre – with single or double disc – Lighter frame



**Profi XL – Powerhouse among precision injectors**

2 working widths: 15 and 18 metre – with single or double disc – precise and efficient

# User experience



**“25% more capacity with 10 litre/hour less fuel use”**

“In order to meet customer' demands, German contractor Harry Wesch from Moorausmoor decided to invest in a VT5536. “The volume that we apply on an annual basis has increased from 80,000 to 120,000m<sup>3</sup>. This has been made possible because of the larger capacity from the Vredo, compared to a trailed tank”, explains driver Dennis Jenk. “Even on fields that range in size from 2 to 5 hectares the machine still lives up to its name.”

*Read the full story from contractor Harry Wesch*





# Vredo

1995



VT1806

1997



VT3306

50 years of  
reliability,  
precision, pure  
craftsmanship

# 2003



VT3936

# 2019



VT7138

Ever since founder B. de Vree started a contracting company in 1947, reliability, precision and craftsmanship have been at our core. Machines were modified and developed by ourselves in order to meet specific conditions and customer needs and the company evolved into a construction company and machinery manufacturer.

## Innovation and progression

In 1976 De Vree developed its first machine, the Overseeder. Its name? Vredo. A name that has been synonymous for knowledge and skill for over 50 years. In the late 80s the over seeding technology was modified to apply slurry, this gave the company a big boost. Even now this technology is seen as innovative and progressive.

## Three decades of TRAC

In 1989 the first self-propelled slurry applicator was built and in 1994 the first TRAC followed. It was developed and built completely in-house, with the user, farmer, soil and crop in mind. Over the course of 30 years this machine evolved into a complete line of three machines that can face every situation, no matter what or where.

**Since 1976: Your fields, our passion**

# Technical specifications

## Standard features

- **Clever software.** Ensures optimal user comfort and maximum capacity
- **Pump filter unit.** Sucks, filters and slices the slurry to the tank
- **Slicing filter.** Contains automatic unloading function, controlled from the cab
- **Automatic air-conditioning, comfort chair etc.** Makes the working environment very comfortable
- **Cruise control.** Reduces fuel use and increases driver comfort
- **Crab steer.** Provides additional field terrain capabilities and retains the soil structure
- **Three-point linkage.** Features active suspension and swivels for crab steer mode
- Proportionally controlled suction arm. Is 160° turn able, even for hard-to-reach loading spots.
- **Water tank.** Usable for hand washing
- **Toolbox.** Carry all the necessary hand tools for regular maintenance and gloves
- **Automatic greasing.** Ensures a long machine life
- **Lighting.** Makes it possible to work (safely) around the clock
- **Tipping tank.** For easy maintenance and cleaning
- **Cooling with reversible fan.** For easy cleaning

## Valuable options

- **Docking loading arm.** Ease of use when filling from transport tanks or slurry containers.
- **Central Tyre Inflation System (CTIS) (automatic).** For an optimal tyre pressure in the field and on the road
- **RTK-GPS automatic steering from Trimble or John Deere.** Makes driving straight a piece of cake
- **NIR-sensor. Helps to control the right amount of nutrients applied.** Always in combination with RTK-GPS
- **Turbo filler with 10 inch suction hose.** Delivers a higher loading capacity (optionally with valve)
- **Transport axle.** Helps during road transport with heavy implements, making sure legal requirements are met
- **Row crop tyres.** For slurry application in row crops such as maize

## Technical specifications

Motor	
Type	Scania DC13 313A, 13 litre line 6, Stage V
Engine power	405 kW / 550 HP @ 1,650 rpm
Max. torque	2,480 Nm @ 1,400 rpm
Tank capacity (diesel / AdBlue)	850 litre / 63 litre

Drivetrain	
Transmission	VVT550
Speed forward	0-40 km/h, stepless
Speed backwards	0-17 km/h, stepless

Axles	
Differential lock per axle	front and rear axle, selectable 4x4
Axle suspension	Front axle hydraulically suspended
Steering modes	Front wheel steer / 4-wheel steer / crab steer left and right

Brakes	
Working brakes	Disc brakes, hydraulically operated, double callipers on front side
Parking brake Sprung brake	calliper on rear axle

Tyres	
Michelin	CerexBib2 900/60R42 CFO 195A8 (standard)
Mitas	1000/65R32 (optional)
Row crop tyres	520/85R42 + 380/90R50 (twin tyres)

Hydraulic capacity	Danfoss
Load sensing max. capacity and pressure	2x 185 liter/minuut bij max. 200 bar
External hydraulics	4 double acting spool valves, with time controlled couplers
Closed Centre max. capacity	slurry system 1 pump closed system 243 litre/min at max. 420 bar
Capacity hydraulic tank/system	85/175 litre
Cooling	rpm cooling fan, temperature-controlled with reverse option

Linkage	
Category	CAT 3N/4N
Lift stroke	660 mm / max. height at 1,000mm (900/60R42)
Lifting capacity	Bottom 75 kN / Top 105 kN (at linkage balls)
Execution	Actively pressure controlled on ground / lifting / floating / pushing
Steering	Left and right swivelling, automatically with crab steer
Suspension	Active implement suspension for road transport / Torsion suspension for field use
External controls	Via cabled remote control

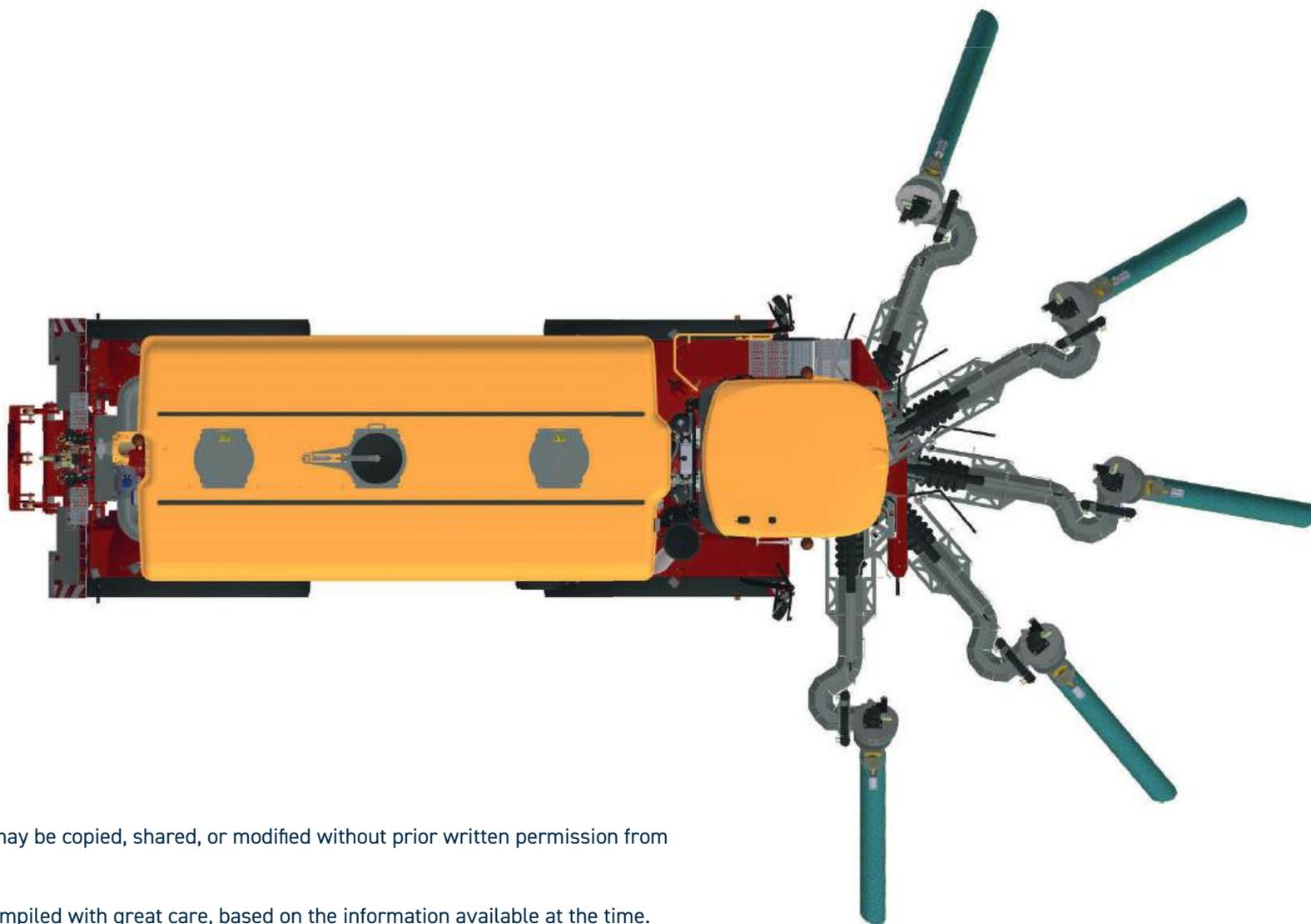
Cab	Claas
Suspension	Air suspended cab
Seating	Air suspended Grammer Maximo Super Comfort chair with extra passenger seat
Air conditioning	Climatronic aircon
Mirrors	Electrically adjustable and heated, including blind spot mirrors
Controls	Touchscreen with joysticks
Extras	Camera and LCD screen, radio with CD player and Bluetooth

Lighting	
Road lighting	Bi-LED   LED
Working lights (cab and vehicle)	LED
Contour lighting	LED

Slurry system	
Properties	9.000 litre/min Vogelsang positive displacement pump (18,000m³ litre/min VHP)
Slicing filter	Vredo FT6200
Suction arm	10 inch, 160° turn able
Dosing	Krohne dosing control with speed-independent control via touchscreen
Tank	GFK polyester slurry tank 22,000 litres

Machine dimensions	
Total length	9.45 m
Total width	3 m (3.14m op 1000/65R32)
Total height	4 m
Clearance	0.45 m
Wheel base	5.13 m
Turning circle	12.5 m (outside)

Total weight	
Slurry system	22 m³ 20.500 kg



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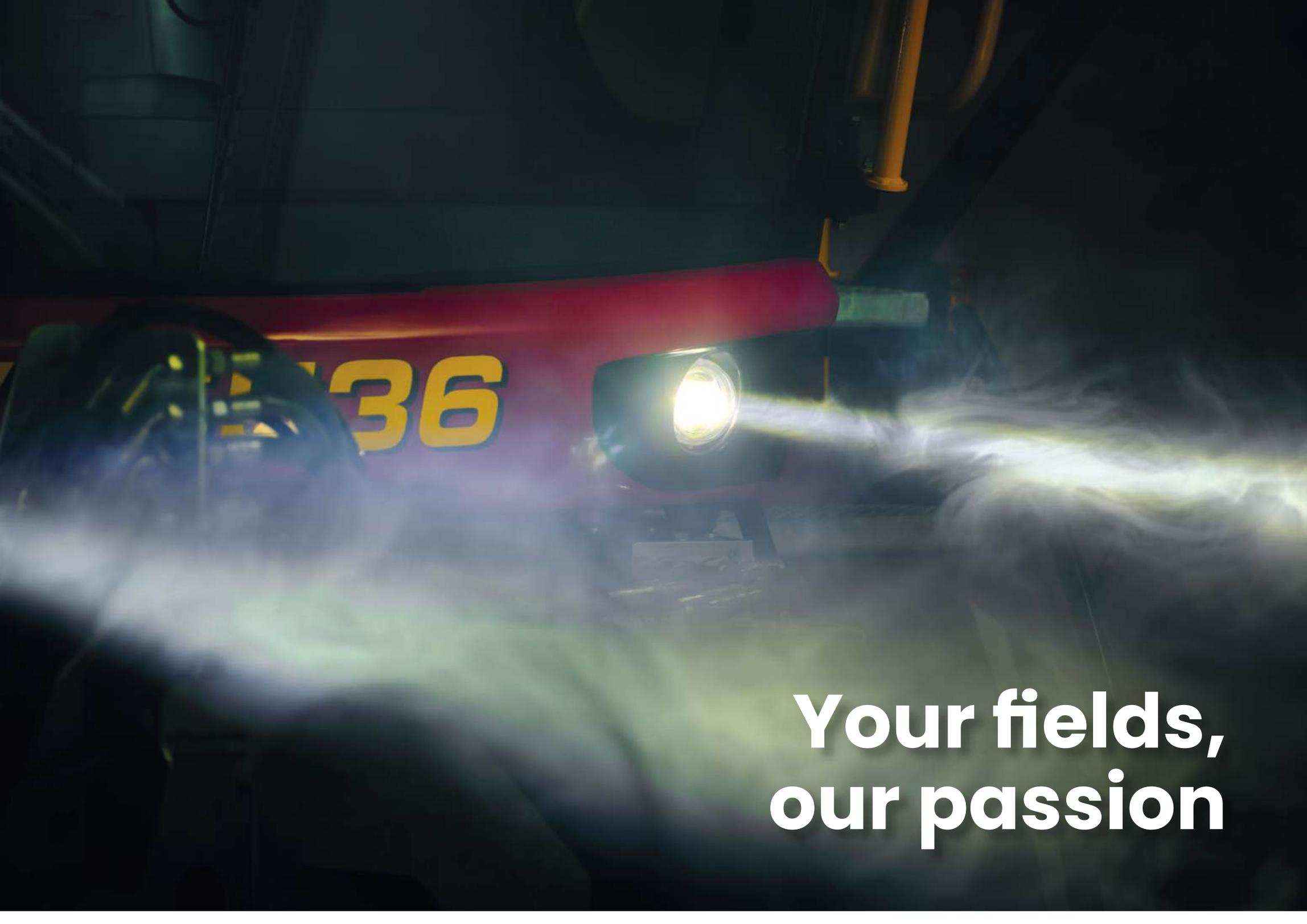
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**Your fields,  
our passion**