



**Vredo** Self-Propelled Trac

**VT4556**

**New!**



**Vredo**

*The proven solution*

**Vredo**

The best in the field

# IN-HOUSE DEVELOPMENT

Vredo is a leading manufacturer of agricultural equipment. Vredo's regular production produces mainly four product lines:

- **Overseeders (agricultural, fine-turf & municipal)**
- **Slicing Filters**
- **Slurry Injectors**
- **Self-Propelled Vehicles (Tracs & Municipal MowerTracs)**

All these product lines are developed and produced fully in-house. Therefore, Vredo is equipped with state of the art production equipment. Vredo sells and distributes her products directly and through a carefully selected distribution network both nationally and internationally.

## History

In the beginning of the company, back in 1947, Mr. Ben de Vree, a farmer's son, started his own agricultural contracting business. The activities were diverse and machines were often adapted to the specific demands of the heavy clay soils of the local Betuwe area in the Netherlands.

The adaption of existing machinery changed slowly, in the course of time, into the development of new machines. Gradually the contracting business changed into an engineering company and later into a fully-fledged factory. In 1976 Ben de Vree introduced a completely self-developed machine; it was the Vredo Overseeder. An immediate success. At the end of the 80's the same double disc principal was used for the development of the unique Vredo Slurry Injectors.

In 1989 Vredo mounted a slurry tank on top of a Horsch three wheel self-propelled flotation vehicle: This was Vredo's first foray into working with self-propelled vehicles. Since 1994 Vredo has, entirely in-house, engineered and produced more than 500 self-propelled vehicles.

## Vision

Vredo has set itself the objective to contribute to the further development of the industry with her products. It's important to Vredo that all parties concerned, including partners and customers can obtain good financial results by distributing, selling and using Vredo products.



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Key features of the VT4556:

OPTIMUM MANOEUVRABILITY

UNIQUE STEPLESS HYDROSTATIC MECHANICAL DRIVE

LOWEST WEIGHT PER WHEEL

FRONT AXLE & CAB SUSPENSION

MAXIMUM COMFORT ON THE ROAD AND IN THE FIELD

THE PROVEN CONCEPT AMONG THE SELF-PROPELLED TRACS

# NEW AND YET STILL PROVEN



## New machine

Investment versus returns: That's the trade-off you generally have to make every year and every season. A trade-off that is going to change once you discover the Vredo Trac. This versatile and sturdy self-propelled Trac offers maximum capacity, speed and usability as the basis for excellent application performance. Thanks to the high pumping capacity and massive performance of the Vredo Tracs you are guaranteed low costs per hour and per hectare. And finally, what it's all about: great performance, great quality work and satisfied customers. That's more than a just a promise, that's daily experience!

## Proven Technology

With over twenty years of experience in the field of self-propelled Tracs, Vredo has developed the VT4556: a System-Trac of the highest calibre. All the experience of the last two decades have been bundled in the development and construction of this light, strong and agile Trac. Since the engine and the entire powertrain are mounted between the axles, not only the weight distribution is as good as perfect, but its center of gravity is also very low. This vehicle boasts the lowest weight per tyre of all such machines on the market. It also offers the soil the best protection thanks to its causing minimal compaction to the soil.

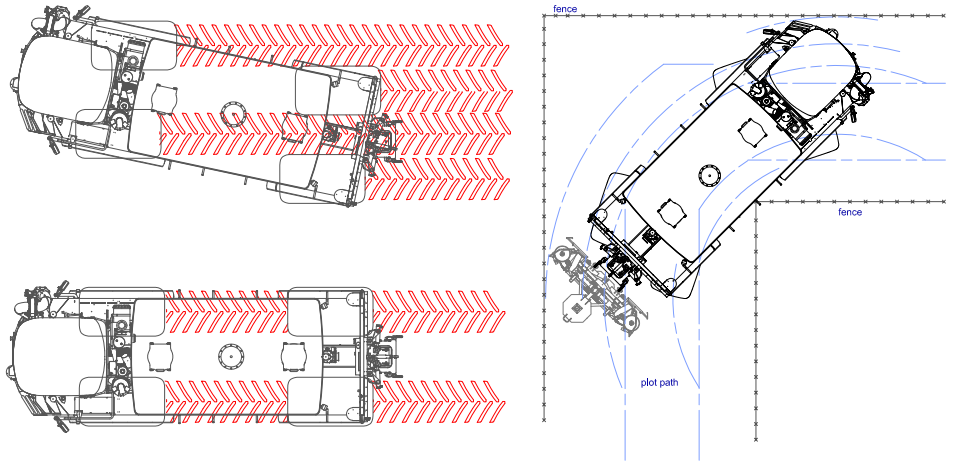
The VT4556 is equipped with 1050/50R32 tyres with a maximum vehicle width of three metres and a very tight turning circle. By combining an optimum wheelbase, front axle suspension, cab suspension and active implement suspension, the VT 4556 has a level of operating comfort unsurpassed. After a long workday both in the field and in road transport, the operator can leave the vehicle contented and rested having enjoyed its supremely comfortable workplace. An important contributing factor is that the noise levels are very low, due to the engine being positioned away from the cab.



# STEERING & WEIGHT DISTRIBUTION

## Crab Steering

The Crab Steering function gives the machine the ability to keep any of its wheels in their own tracks. This means minimal soil compaction and thus the maintaining of the soil's open structure. Also, the four-wheel steering offers the machine optimal manoeuvrability in the yard, on the road and in the field.



## Optimal Weight Distribution

The machine has been designed to give optimum weight distribution between the front and rear axles. In this way you are able to drive using very low tyre pressures all-round.

The cab is attached to the very front of the machine so that any tank construction, manure spreader or tank-trailer can be optimally positioned.



# THE DRIVER'S WORKPLACE

The roomy and fully sprung comfort cab on the VT4556 is the ideal workplace for long working days behind the wheel. This allows the operator to work safely, quietly and comfortably. The large glass windscreen and doors provide the driver with excellent visibility. The high level of comfort is further enhanced by the climate control and the supremely comfortable seat - included as standard.

All functions can be ergonomically operated with the control console which is integrated into the driver's seat. An ergonomically positioned joystick also offers excellent usability. The large 10.1 inch color touch-screen terminal displays all the vehicle and system information in a logical and orderly manner.

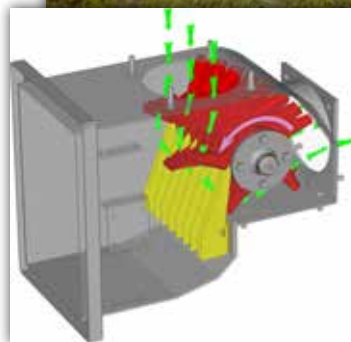


# MACHINE CONFIGURATIONS



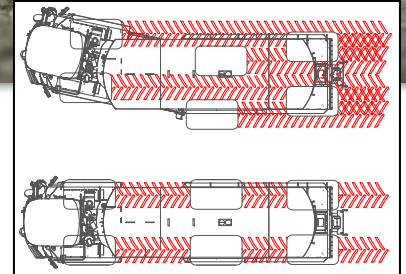
## VREDO VT4556 19500V

The 2 axle VT4556 has a lightweight polyester (GRP) slurry tank of 19,500 liters. The pump/filter-unit with suction arm is located at the front of the machine and is 120° rotatable so that one can work with full visibility. The 9,000 litre/minute rotary-piston pump in combination with the 8-inch diameter suction arm (with an optional turbo supercharger) offers the best possible performance and flexibility under all circumstances. The Vredo Slicing Filter mounted in front of the pump ensures that all large particles are reduced in size and that all foreign objects are filtered out of the slurry. This prevents damage to the pump and protects the entire system from clogging up. The three-point linkage with CAT 3 coupling is automatically steered when the machine is in crab steer.



## VREDO VT4556 27000Zv

The VT4556 with tank trailer is a three-axle vehicle with a tank of 27,000 litres. This variant, which combines the advantages of a two-axle vehicle with a large tank, is the ideal solution for contractors who really need capacity. Thanks to the construction with a tank trailer a vehicle has been created that is highly manoeuvrable, combined with a low weight per wheel. This is also the ideal solution when manure is to be transported between farm and field.



## VREDO VT4556 25000Zc

The VT4556 at 25,000 liters tank trailer is a three-axle vehicle that is perfectly suited for pumping from ground level slurry silos. The high-mounted telescopic loading arm, with a centrifugal submersible pump capacity of 14 m<sup>3</sup>/min, can fill the tank in less than 2 minutes. The pump “forces-fills” the tank at high speed. This is the ideal solution if you need to fill the tank from a silo with a depth of 4 metres. Even with this tank trailer the vehicle still remains very agile and has a low weight per wheel.



## VREDO VT4556 TEBBE

The level and long platform VT4556 provides an excellent place to mount a manure, muck, lime or compost spreader. The Trac is already prepared for the installation of load cells between the attachment points and the subframe. This allows for optimal spreading and dosage control. The spreader has a capacity of 18m<sup>3</sup>/20 tons. Thanks to the PTO mechanical drive the spreader can, at a constant input speed, efficiently create a constant spreading pattern and low fuel consumption. As an alternative, a hydraulic driven version is also available.



# THE VT4556 CONCEPT

## HYDRAULIC PERFORMANCE

Pump drive thru transfer box behind engine, equipped with:

- 3 load sensing pumps 175/140/89 l./min, max. 200 bar
- Closed loop pump 180 l / min, max. 450 bar
- Oil tank capacity approx 110 litres

## TYRES

- 1050/50 R32 Michelin

## ENGINE

- SCANIA DC 13 384A
- 6 cylinder line engine
- Displacement 13 liters
- Power 330 kW/450 hp
- Max torque 2.275 Nm
- Engine emission value Stage 4
- Equipped with motorbrake
- Equipped with air compressor

## HITCH & REAR HYDRAULICS

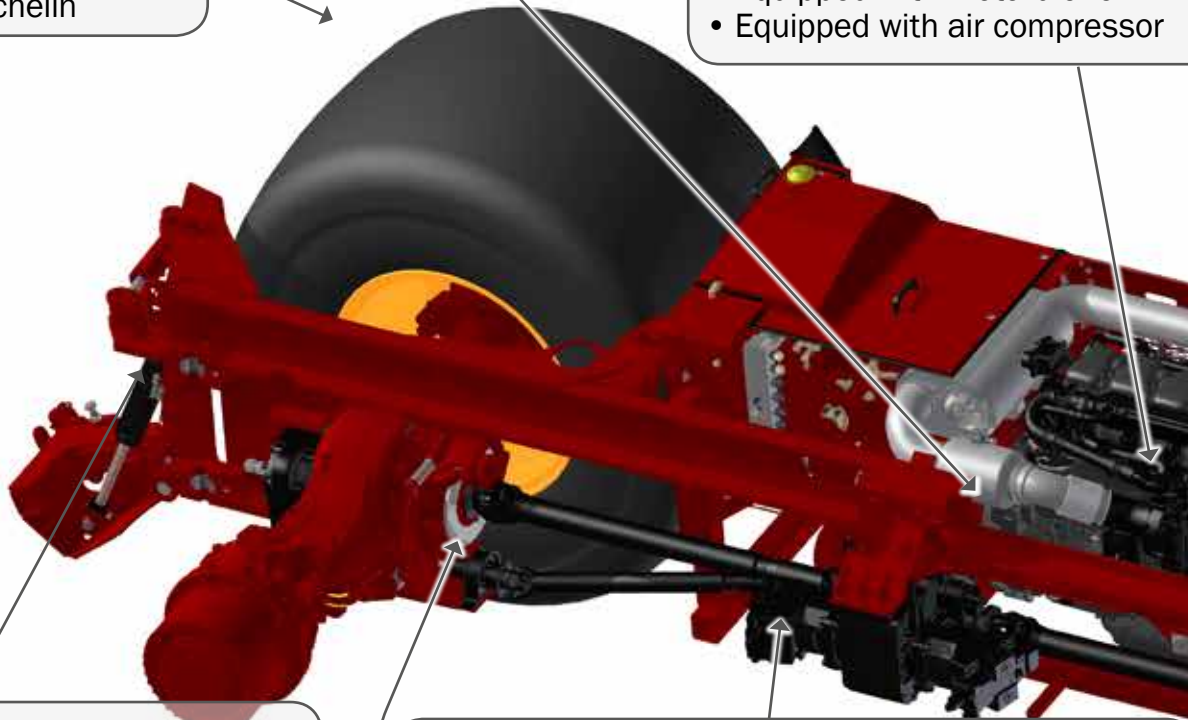
- 4 Double-acting valves
- Time adjustable
- Active base adjust
- Floating position
- Left/Right steer with crab steer
- Active suspension on the road
- Torsion springs in field use
- CAT 3

## TRANSMISSION

- Complete mechanical driveline - 100% lockable
- Infinitely variable (hydraulic motors)
- Driving pump 250 cc
- Driving motors 2 x 160cc
- Speeds 0 -20 km/h, 0-40 km/h
- Engageable 4WD, 2wd rear axle for road application

## PTO (OPTIONAL)

- Full engine power available
- Front PTO engageable/disengageable
- Rear PTO engageable/disengageable





( T4f )

### SWAP BODY DESIGN

- 6 Mounting Twist lock points
- Possible to build in load cells

### CAB

- Claas cab
- Suspension on Koni shock absorbers
- Vredo Trac Control panel with touch screen
- Uncluttered control console mounted on armrest
- Ergonomic multi-function joystick
- Grammer Maximo Super Comfort Seat
- Automatic climate control
- Camera with LCD color monitor
- Passenger's seat

### LIGHTING

- BI - Led road lights
- Xenon / halogen work lights on cab
- LED working lights

### FRONT HYDRAULICS (OPTIONAL)

- 3-point hitch CAT 3
- 2 double-acting valves

### AXLES

- 2 driven steered axles
- Oil immersed brakes in final drive
- Front axle hydraulic suspension
- 4-wheel steering
- Crab steering
- Differential lock axles
- Servo steering

### FUEL TANKS

- 2 x 300 liter

# FEATURES & OPTIONS

FEATURES



Crab steer and Vredo are an obvious combination



A 120° rotatable reload-arm gives great visibility



Water tank for washing hands, etc. and a handy storage box for PPE.



Swiveling 6" manual connector. On opening the pump starts automatically



Engine cooling system with reversible fan, easy to clean - maximum cooling capacity



Hitch with active suspension and auto-controlled in crab steering



Standard automatic lubrication for maximum longevity



Around the clock application in "broad daylight"



Tippable tank for easy maintenance



Slicing filter with automatic ejection function, operated from the cab



Automatic air conditioning, seat comfort, etc., offers a high level of comfort



Easy entry into the cab with the best suspension available

OPTIONS



Reload-arm for tank filling from nursery tanks, tankers and silos



Tyre pressure control system for optimum tyre pressure on the road and in the field



Turbo filler for increased loading capacity



Extra assist Axle to meet Public safety and local regulations in case of loading additional heavy equipment.



# TECHNICAL SPECIFICATIONS

	Vredo VT4556
<b>Engine</b>	
Model	Scania DC13 384A, 13 liter, Stage 4 Tier 4 f
Power	331kW / 450HP @ 1500-1650 rpm
Max. torque	2275 Nm @ 1250 rpm
Tank (Diesel   AdBlue)	600 litre   60 litre
<b>Transmission</b>	
Speed	Forward 0-19 km/h, 0-40 km/h stepless (with cruise control)   Reverse 0-19 km/h stepless
<b>Axles</b>	<b>RABA steered axles</b>
Transverse differential lock	Front and rear engageable
Axle Suspension	Front axle hydraulic suspension
Steering	Front wheel steering / 4 wheel steering / Crab Steer left and right
<b>Brakes</b>	
Service brake	Oil immersed disc brakes in the end drive, hydraulically operated
Parking brake	Spring-operated dry disc brake on both axle input shafts
Engine brake	Enginebrake / hydrostatic brake
<b>Tyres</b>	
Size	1050/50 R32
<b>Hydraulic Capacity</b>	<b>SauerDanfoss</b>
Load sensing, max. capacity and pressure	1x 175 l/min   1x 140 l/min   1x 89 l/min at a max. 200 bar
External hydraulic connections	4 double-acting valves with activation adjustment
Closed circuit max. capacity	180 l/min at max. 420 bar
Capacity hydraulic oil reservoir	110 litre
Cooling	rpm coolingfan reliable cooler with reversefunction auto speed
<b>Hitch</b>	
Category	CAT 3 Walterscheid hooks/CAT2 Width, 865mm
Hitch capacity	At the bottom 56 kN and max 125 kN in couplings
Implementation	Active control with adjustable downwards, lifting and floating 3-point hitch
Steering	Left/right steering, automatic in crab steer
Suspension	Active implement suspension on the road, torsion suspension in the field
<b>Cab</b>	<b>Claas</b>
	Koni shock absorbers suspended cab   Air suspended Grammer Maximo Super Comfort seat Passenger seat   Climatronic air conditioning   Electric adjustable & heated mirrors, incl. proximity mirror Touchscreen control   Camera & LCD color monitor, radio / CD player / Bleu Tooth
<b>Lighting</b>	
Road lights   Lights (cab)   Working lights	Bi-LED   Xenon   Halogeen   LED
<b>Slurry application system</b>	
	9,000 l/min Vogelsang positive displacement pump   Vredo FT5200 Slicing Filter 8", 120 ° rotatable reload arm   Dosing control via touch screen - speed independent Polyester slurry tank 19,500 liter   Steel tank up to 27,000 liters in tank trailer
<b>Manure application system</b>	<b>Tebbe Wide Area Spreader</b>
	Tebbe wide area spreader   2 rigid horizontal beaters   2 spreading discs 100 cm, 5 blades per spreading disc   Double Rübige chain 125 mm Content: interior dimensions: 5.13 x 2.30 x 1.20 m, 14.7 m³ / 20 tons capacity
<b>Machine dimensions</b>	
Basic vehicle	Overall length 7,30m   Width 3,00m   Height (1050 tyres) 3,70m Ground clearance (1050 tyres) 0,45m   Wheelbase 4,50m   Turning circle 11,80m (external)
Manure Aplicator	Overall length 8,20m   Width 3,00m   Height (1050 tyres) 4,00m Ground clearance (1050 tyres) 0,45m   Wheelbase 4,50m   Turning circle 11,80m (external)
<b>Weight</b>	
Basic vehicle	13,860 kg
Total weight (unladen)	Slurry System 19.5m³ : 18,000 kg   27m³ : 24,200 kg   Tebbe: 20,120 kg
<b>Standard equipment</b>	
	Automatic lubrication system
<b>Options</b>	
	Tyre pressure control system with automatic control   Trimble GPS RTK automatic steering system   Extra 350 Liter Fuel tank   10" suction arm turbo-filler   Michelin Tires 1000/55R32

\*Vredo Dodewaard BV reserves the right to change specification and design of products described in this literature without prior notice.

# Service team



## Our philosophy

Vredo's philosophy is "Built to Work": And yet, every machine, however reliable, needs regular maintenance to keep working. To make the maintenance work as easy as possible, we've designed our machines to be as service-friendly as possible. Vredo's support on parts and service is customer-focussed, reliable, competent and fast.

## Spare Parts

Vredo maintains good stock level on most own-parts (incl. wear parts). When you purchase an original Vredo part, you purchase quality and assurance of mind. Our parts are manufactured to rigorous guidelines which meet our high standards.



## Service

Vredo has a full-time team of professional and well-trained service engineers in house in order to make sure that your machine continues to function optimally, even during the most hectic peak-periods. Thanks to our fleet of service vehicles, we are also able to attend to repairs and servicing on location, wherever our client may be in the world. The Vredo Service team also functions as a back up for the dealer Service Teams, with frequent updates and organised training days.

## Imprint

### Published by:

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Dealer stamp/stempel/Stempel/tampon concessionnaire

The best in the field