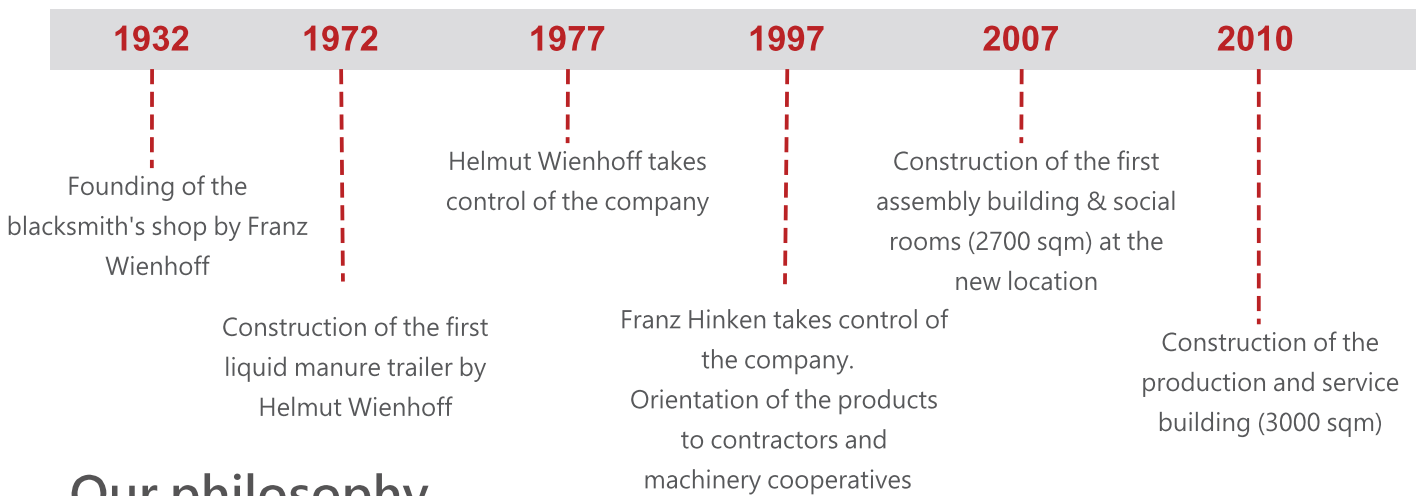




Wienhoff

PRODUKT BOOK

Wienhoff - since 1932



Our philosophy

We ,Landmaschinen Wienhoff GmbH, manufacture our products in Bawinkel in Emsland, Germany. In our company, in which we have been actively working on new, innovative products since 1932, over 100 employees are now responsible in administration, design, production and service for the development of the latest technologies and solutions for special customer requests.

In recent years we have specialised in the production of liquid manure trailers and their distribution equipment as well as special vehicles..

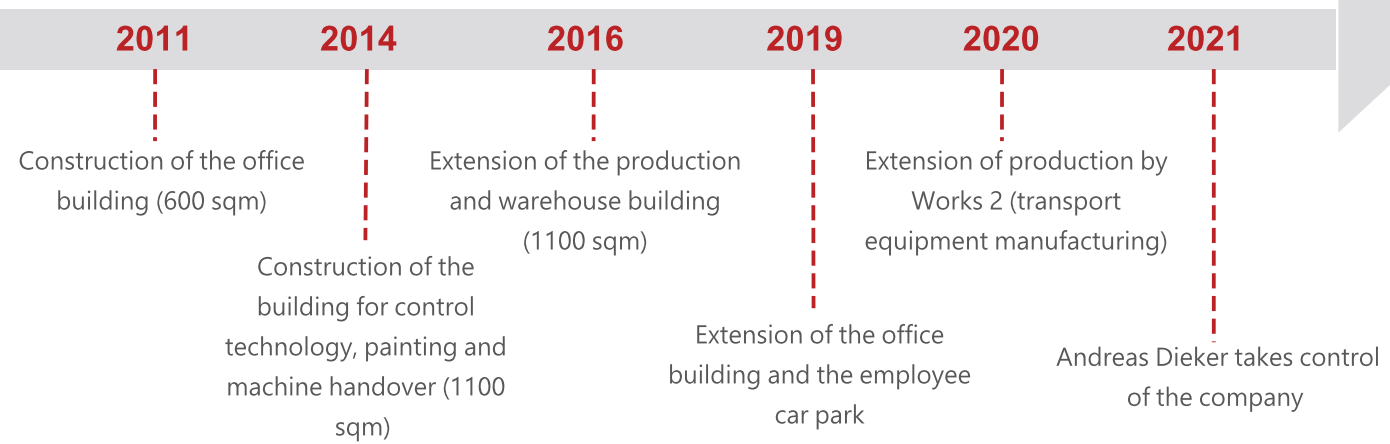
We also attach great importance to cooperation with technical colleges, universities and, of course, our customers. This allows to continuously further develop our liquid manure technology.

"No two liquid manure trailers that leave our production are the same!"

We are characterised by special, innovative solutions that are tailored precisely to the wishes of our customers. Freely in keeping with our motto:

YOUR REQUIREMENT IS OUR DRIVING FORCE!





“The essence of success is having precisely the skills that are in demand at that moment.”

Henry Ford



Andreas Dieker, Managing Director

“We face the high demands in agricultural technology for sustainability and yield in and with agriculture in the course of time.

I am pleased and grateful that I have dynamic and thoughtful employees in all areas of the company who know exactly how to implement this.”

Andreas Dieker, Managing Director

EVERYTHING FROM A SINGLE SOURCE... ..

But that is not all...
We take you along in the
manufacturing process as far as
possible. Up to the "shell
acceptance" you can still make
small changes so that the
product built by us exactly
meets your expectations.
For your individual
(supra-)operational use and
demands. This is how we work
together with you for your
success!

**Have fun with us
doing so!**



Office



Shell construction



Final assembly



Paint shop



Control technology



Spare part warehouse



Tank semi-trailer manufacturing



Service



Single-axle trailers 1.000l - 18.000l

We produce our single-axle trailers with a tank volume of 1,000 – 18,000 litres. From the simple liquid manure trailer with vacuum compressor to the special spreader drum for direct incorporation, you get a product from us that is adapted to your requirements.



16,000 l pump tank trailer + driving axle + crawler track



1.000l Garden Pro



4.000l vacuum tank trailer



16.000l pump tank trailer + 6 m Evers Toric



11.000l vacuum tank trailer for transferring liquid fertiliser



16.000l pump tank trailer + driving axle + 12 m Duport slitting device



18.000l pump tank trailer + 6 m Vollmer disc harrow



16.000l pump tank trailer + 6 m disc harrow



11.000l pump tank trailer + 12 m Bomech Speedy

Equipment & special features of single-axle trailers

- NEW: First 30-tonne driving axle for avoiding ground damage
- Top and bottom hitching to tractor
- Carrying of spreaders - permanently mounted or in the VarioHub four-point hydraulics
- Vacuum or pump tank trailer with hydrostatic pump drive for exact regulation of spreading quantity
- Axles with load capacity up to 30 t, wheels up to 2.15 m high and 1.05 m wide
- ISOBUS-capable control of the hydraulic function with SectionControl is possible and thus spreading according to application maps (precision farming)



Tandem 10.000l - 28.000l

Our tandem liquid manure trailers are available in different sizes as vacuum or pump tank trailers. You can choose a tank volume from 10,000 to 28,000 litres. The equipment options vary according to wishes and needs.



19.000l pump tank trailer + 15 m Bomech Farmer



19.800l pump tank trailer + 15 m Bomech Farmer



19.000l pump tank trailer + 15 m Bomech Farmer



21.000l pump tank trailer + auxiliary axle + 15 m Bomech Farmer



16.500l vacuum tank trailer + 15 m Bomech Farmer



22.000l pump tank trailer + 900/60 R42 + 15 m BlackBird



19.000l pump tank trailer + 18 m Bomech Multi



Tandem 28.000 l liquid manure trailer with driving axle + 13.50 m disc harrow

Equipment & special features of tandem vehicles

- Moor drums with special tyres 900/60 R42 or 1050/50 R32
- Auxiliary axle for axle load distribution according to StVZO (German Highway Code)
- VarioHubwerk 3- and 4-point hydraulics with movable lower arms
- Linkage up to 36 m working width
- Arable land injectors up to 9 m and slitting devices up to 12 m working width
- Bogie with parabolic suspension, hydr. suspension or air suspension with Wienhoff LevelTuner + ABS and EBS => safe with Wienhoff!
- 1st axle can be a 13.5 t driving axle
- 2-chamber system for increasing the supporting load during spreading
- Vacuum compressors, centrifugal pumps, worm/rotary piston pumps
- Wienhoff cable forced steering
- Automatic quantity regulation with documentation



Tridem

20.000l - 37.000l

Tridem drums with a tank volume of 20,000 and 37,000 litres are also available as vacuum or pump tank trailers. With a large drum volume, tridem liquid manure trailers are suitable above all for spreading with large working widths and suction from liquid manure supply trailers all in one go. With regard to the equipment, you are flexible here and can equip the liquid manure trailer according to your circumstances.



31.000l pump tank trailer + 27 m Bomech Multi



30.000l pump tank trailer + 30 m Vogelsang



30.000l + 30 m Vogelsang Slide



Equipment & special features of tridem vehicles

- Thanks to the Wienhoff LevelTuner, 36 m drag hose systems can be used without problems
- Various docking systems are possible on both the liquid manure trailer and the tractor
- Emptying of supply tankers such as tank semi-trailers and central axle front trailers in one go
- Tridem with 800/60 R32 with Wienhoff tyre pressure control system for safe crossing and ground protection
- Wienhoff driving axle technology is also useful here



30.000l pump tank trailer + 30 m Vogelsang Slide



25.000l pump tank trailer + 19.50 m Wienhoff drag shoe



30.000l pump tank trailer + 8.50 m docking crane and 6 m Evers cultivator



24.000l pump tank trailer + 15 m Bomech Farmer



Tank semi-trailers

Classy - lightweight - convenient - safe

Our supply vehicles are just the job for transport on the road and between farmyard and field. Our 304 stainless steel tank semi-trailers guarantee the efficient transport of your liquid manure on the road. You can choose a tank volume from 28,500 to 32,000 litres.



10" undocking hopper with drip tray



30.000l + lifting axle as starting aid



Equipment and special features of tank semi-trailers

- Weight 6 t depending on equipment
- Electropneumatic slide valve control with soft pump switch-off in case of "auto-fill stop"
- Drip tray at rear, dome tray at front and 3 dome covers for interior cleaning
- Automatic switch-off of the 6000 l Börger pump or lightweight Vogelsang rotary piston pump with exchangeable wear parts
- ALL pipe connections and connection boxes made of 304 stainless steel
- Lightweight chassis with lifting axle at front and steering axle at rear
- Very high standard of workmanship
- Intelligent pump control for sensible, simple and safe operation and function sequence
- 8" or 10" undocking hopper with drip tray
- Flushing pipe up to the front
- Large hose trays on the side
- Aluminium leaning ladder as standard; alternatively gangway with railing



Intelligent pump control

Sensible – simple – safe





Central axle front trailers

Our supply vehicles are also ideal for transport between farmyard and field. Our central axle front trailers are used for efficient transport behind the tractor.

Due to off-road capability, the spreader vehicle can also be supplied in difficult to reach areas.

The tank volume is variable between 25,500 and 32,000 litres. As with our spreader vehicles, all other equipment is freely selectable according to your wishes.



150 mm sight tube and hydraulic venting



Large filling aid, use on both sides



Undocking hopper underneath



Additional LED lighting, 10" docking hopper pipe with 8" rubber hopper



28.500l + + transfer pipe + double-articulated docking arm



28.500l + 650/50 R26.5 + hydraulic sliding cover



26.000l + + transfer pipe + double-articulated docking arm



28.500l Black Edition



Single-articulated docking arm



150 mm sight tube at rear with flushing and drip tray

WieTaCon Shuttle



Controller for transport equipment
View of main menu



Special vehicles

In addition to our liquid manure trailer production, we also manufacture special vehicles. You can get a wide variety of bodies, tank trailers, hook lift systems or swap bodies from us.

Enquire to us for your special vehicle!



26.000l Hawe swap body system with twistlock



14.000l hook lift with vacuum pump



18.000l Tebbe swap body system



7.000l water drum + hose reel + centrifugal pump at rear



10.000l vacuum tank trailer + sprinkler



14.000l Abody + 14,000 l trailer with hose reel for suction from sewage treatment plants



25.000l vacuum tank trailer tandem semitrailer for Mercedes Zetros



12.000l body with water cannon for binding dust

Equipment & special features of special vehicles

- Swap bodies or hook lift systems adapted to your existing chassis
- Truck tank bodies 8x6 or 6x4 with trailer operation
- Municipal tank vehicles with 21,000 l/min industrial compressors, 80 m hose reel and radio control
- Bodies with water mist cannons for binding dust during demolition work in residential areas or to prevent wind erosion of 12 metre-high hard coal heaps

**Ask us! We'll solve your task together!
Your requirement is our driving force!**



11.000l with sprinkler for watering coal heaps



20.000l valveless filling and emptying



Drag hose/shoe equipment from other manufacturers up to 36 m

The drag shoe technology enables the liquid manure to be spread strip-wise and close to the ground and to be slit directly into the ground. On the one hand we produce our own drag shoe linkage, while on the other we also offer spreading equipment from Bomech and Vogelsang. You can select different working widths up to a maximum of 36 m to suit your specific needs.



30m Vogelsang drag hose



CFC switch-off



Ball valves for switching off working widths



30m Vogelsang with baffle plate



30m Vogelsang drag hose



24m Bomech Multi



15m Bomech Farmer



27m Vogelsang Slide

Models from the various manufacturers

Bomech

- 12m and 15m Bomech Speedy
- 12m and 15m Bomech Farmer
- 12m to 30m Bomech Multi

Vogelsang

- 7,5m to 18m Vogelsang SwingUp
- 18m to 36m Vogelsang SwingMax
- 18m to 30m Vogelsang SwingMaxSlide
- 15m Vogelsang BlackBird



27m Vogelsang drag hose



15m Vogelsang Black Bird



FREESIGHT

Since the docking arm at the front of the tractor can be folded transversely, the driver's field of view is clear at all times.

A cylinder swivels the double-articulated arm upwards, while a further cylinder drives the spout into the transfer position.

Counterweights are mounted on the left-hand side of the machine to maintain the balance when the arm is extended.

Reach from pivot point 2.75 m
Transfer height approx. 4.50 m
Unladen weight 1200 kg

The Wienhoff turbine presses the liquid manure to the rear into the drum through the hose routed along the side of the cab.



View from the cab with FreeSight



View from the cab with a different front spout



FreeSight during suction



Lateral attachment with 8" hose



FreeSight during suction



FreeSight half unfolded

Your advantages at a glance

- Free field of view on the road and in the field
- Increased safety
- Short and compact attachment in front of the tractor
- Swivelling to left and right
- Filling turbine at front in head (10,000 – 12,000 l/min)



FreeSight in folded state



Docking arm and suction spout



Docking arm, 1 joint



Docking arm, 1 joint & turbine



Suction spout, 1 joint with "nicker" on head



Docking arm, 1 joint, laterally swivelling with nicker

Our docking arms are available in different versions. In addition to the single-articulated versions, we also offer double-articulated docking arms with filling turbine.



Suction spout, 2 joints



Suction spout + turbine



Suction spout + turbine, bent

Double-articulated docking arm – with swap variants



Suction spout + turbine + 10" hose



Suction spout + turbine + short docking ball



Suction spout + turbine + long docking ball

In addition to the double-articulated docking arms with and without turbine (see above), we also offer a swap body system. This way you remain flexible during suction!

You can vary between a suction hose for suction via a container wall or from a pit, as well as a suction spout with a short docking ball for suction from docking stations, or a suction spout with a long docking ball for suction from a supply vehicle.



Suction crane with boom up to almost 9m



- Central suction crane in front of the tank
- Hydr. swivelling on both sides up to 320°
- Lengths: 5.60 m and 8.60 m
- Operation with Wienhoff proportional valve controller and multifunction joystick

Docking station

Our docking station offers the driver increased convenience when filling the liquid manure trailer. It can easily be operated from the tractor using a radio remote control. The station is very simple to manoeuvre thanks to the heavy duty castors. The docking station can be carried on the front hydraulics for longer transport distances.

Safe emptying into the pre-tank takes place before docking.



8" docking station for high containers

Equipment & special features of docking station

- Radio remote control with automatic filling start/filling stop function
- Flow release via metal sensor
- Mechanical and electrical overload protection
- A 110 Ah battery for operational reliability even on cold days
- Heavy-duty castors for simple movement and compensation while docking
- Automatic closing in case of inadvertent undocking
- Integrated drum counter on the station
- Mechanical indicator of the main and auxiliary valve
- Automatic switching during suction is possible with WieTaCon 12-1



8" radio station

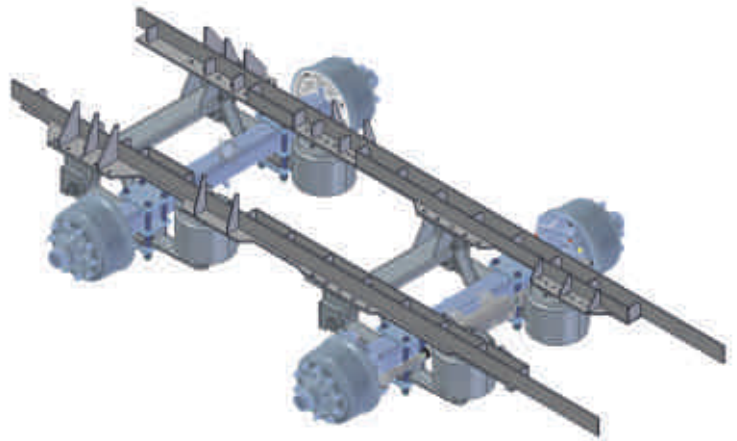
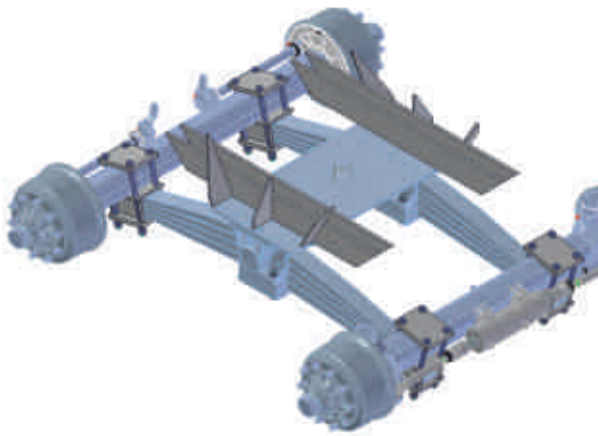


8" pit docking station

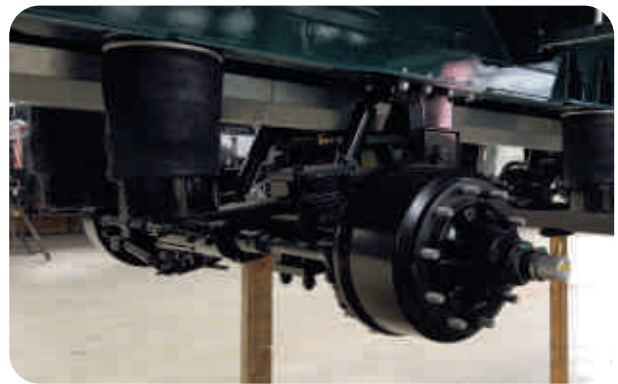


8" docking station for pits with non-return valve

Chassis



14-tonne bogie with parabolic suspension
(mechanically offset by 2 positions)

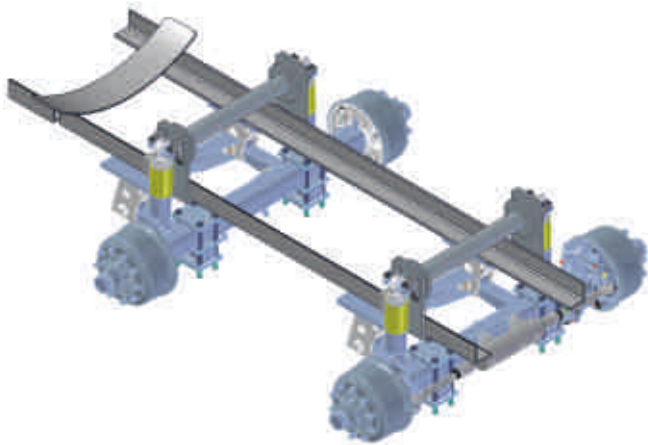


14-tonne with air suspension
(mechanically offset by 1 position)

Driving axle



Driving axle: Driving tracks in the crop: "Not with us!"
Convince yourself of the Wienhoff driving axle system!



12-tonne hydr. chassis



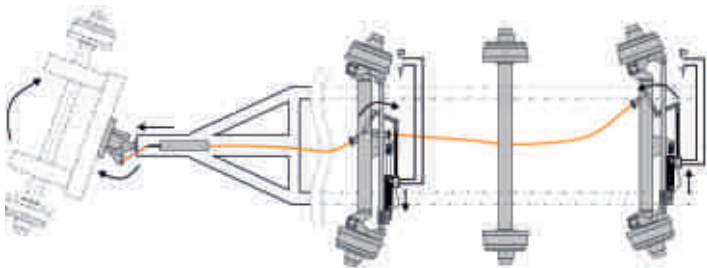
Specially fitted special construction frame for high steering angle with a maximum outer width of 3 m

Wienhoff VarioHub

- Laterally movable lower arms
- Lateral stabilisers for driving on roads
- 3- to 4-point mounting possible
- Acceptance of Cat 2 & Cat 3 attachments
- Adjustable lifting struts
- Wear bushes in the control arms



Steering systems



The hydraulic "cable forced steering" in Wienhoff driving systems

The simple coupling of a 10 mm coupling bar suffices for the steering cable to transmit the steering pulse precisely from the tractor to the steering axles.

Proportional to that, a hydraulic valve controls the respective steering axle in the correct steering angle with a maximum steering lock true to track and stable through the bends - and this permanently up to 50 km/h!

For more than 20 years we have been using this working principle, which originates from the truck industry and has been further developed by us, in our chassis to the complete satisfaction of our customers.

However, the simple friction steering has also gained in safety and driving stability thanks to Wienhoff:

A pneumatic steering stabiliser mounted transversely to the axle allows the driver of a Wienhoff liquid manure trailer to drive at 40 km/h in road traffic without having to lock the steering axle!

Just to make sure!

New alternative: electrohydraulic steering

On the road, the steering works like the hydraulic cable forced steering.

Advantages:

- manual oversteer of the steering on slopes to avoid drifting
- safe manoeuvring in cramped farmyards
- various scenarios such as crab steering are possible
- steering signal conventionally or via a monitored K80 ball coupling is possible



Tyres



Alliance MultiTuse 550
480/80 R38
540/80 R38



Alliance
750/60 R30.5 A-390
800/60 R32 A-390
35.5 LR 32 A-393



Mitas
900/60 R42 SFT



BKT
900/60 R42 AgriMax Force



BKT
750/60 R30.5 Ridemax FL
693M



BKT
30.5 LR 32 Roadmax FL
600



Vredestein FlotationTrac
650/65 R30.5
750/60 R30.5
800/60 R32



Michelin HighFlotation
650/65 R30.5
750/60 R30.5

We offer you the right tyres from various manufacturers with the optimum tread for road, field and meadow!

Together with you we find the right wheel, with or without Wienhoff tyre pressure regulation system, which is without equal in terms of performance and control.

Pump equipment



8.000-15.000l/min Battioni & Pagani vacuum compressor with oil top-up tank



Water-cooled compressors for continuous operation



6.000l/min mech. rotary piston pump from Börger or Vogelsang



Rotary piston pump 9,000 l/min with two- or three-stage reduction gearbox from Börger or Vogelsang

Rotacut



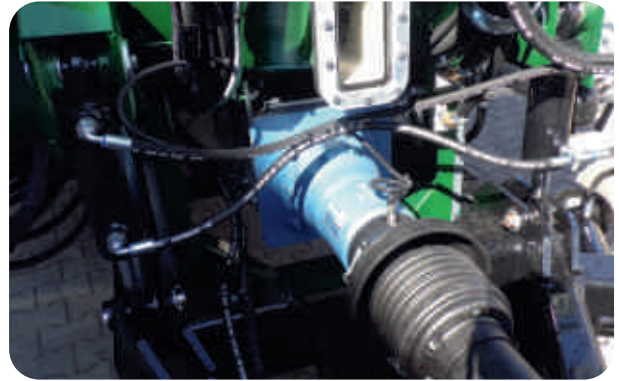
RotaCut M10 000 on large strainer box



RotaCut M 10 000 with four-armed blade bars on large strainer box with AutoCutControl (autom. adjustment)



Centrifugal pump system: Garda Turbo for high spreading performance with very low wear



Screw pumps with 6,000 – 12,000 l/min pumping capacity from Wangen or Meyer-Lohne



9.000l/min hydrostatically driven rotary piston pumps for controlling the exact spreading quantity



Axial piston variable displacement pump in a closed circuit for hydrostatic drive of the rotary piston pump

The subarea-specific fertilisation is closed in the case of alternating spreading techniques



RotaCut RC 58H (12,000 l/min throughput) on large strainer box



All strainer boxes with door opening and 2" drain cock or 6" slide valve

SPECIAL EQUIPMENT

Wienhoff tyre pressure regulation system with maximum air output of 5,000 l/min

Control and regulation - simple and safe with the Wienhoff controller



Retrofitting on the tractor possible on the front and rear axle



Optionally: Vogel'sang filling aid or Wienhoff filling turbine



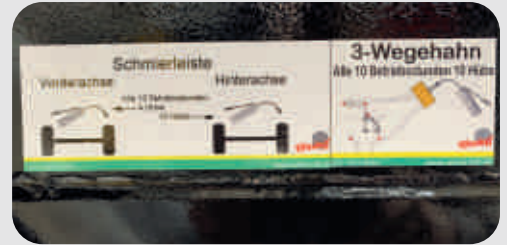
Flow rate measurement or control via Krohne flow meter with optimal Wienhoff controller

Including recording of spreading data for documentation



Central lubrication on the complete liquid manure trailer and optionally also on the attachment

Alternatively: central lubrication bar for poorly accessible lubrication points, e.g. chassis



Fully automatic Piadin metering system with 150-litre stainless steel tank including sight glass



Rigid bottom attachment up to 3-tonne supporting load



Hydro-pneumatic drawbar suspension 4.0 tt



Level display for optimal filling and emptying

Vacuum tank trailer



Pump tank trailer



The Wienhoff 2-chamber system for increasing the supporting load during spreading.

SPECIAL EQUIPMENT

The “additional supporting load” gained by the two-chamber system is transferred to the front axle via the top cylinder.



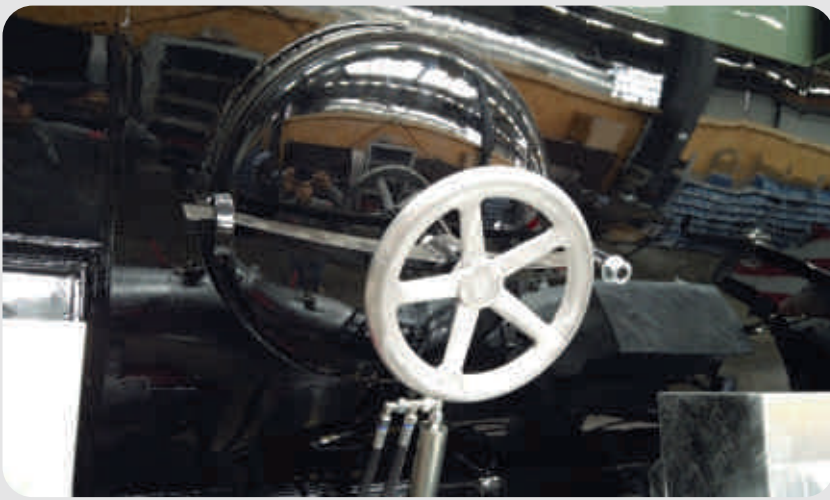
Hose transport trays under the liquid manure trailer or on the side of the tank for carrying 6" or 8" hoses

Hand washing container with integrated soap dispenser or storage box for gloves or tools, for example



Water purification system with 80-litre aluminium storage tank pre-charged with 8 bar air pressure and 20 m automatic hose dispenser with spray gun





On customer request, additional cleaning opening is available with 600 mm diameter or 8" (200 mm) service nozzles in the tank.



LED multi-chamber lighting with active side lights and clearance lights
Additional LED work lights available



Hydraulic dome or sliding cover for external filling from above

Optionally with hopper and ladder

WieTaCon 12-1

WieTaCon Pro Screen Touch 12.1

- Suction and spreading start/stop
- Fill level preselection via potentiometer
- Automatic end shutdown with anti-cavitation
- Distributor switching high/low
- Distributor switching left/right
- Display lock for road driving
- Input/output diagnostic menu
- Timer menu for automatic sequences
- Counters for operating hours and more
- Drum counter
- Speed measurement on the axle
- Key illumination and dimmable display
- USB interface
- Emergency stop switch



WieTaCon Pro Screen Touch 12.1

CAN-Variante 1 / single-articulated docking arm

- Suction start-stop
- Undocking arm venting and unlocking
- Raise/lower docking arm
- Lifter up/down
- Linkage unlocking + linkage auto-folding (optional)
- Turning point management
- Spreading start-stop
- Partial width left – right



CAN variant 1 auxiliary operating bar

CAN-Variante 2 /double-articulated docking arm, digital joystick

- Suction start-stop
- Undocking arm venting and unlocking
- Joystick for docking arm
- Lifter up/down
- Linkage unlocking + linkage auto-folding (optional)
- Turning point management
- Spreading start-stop
- Partial width left – right



CAN variant 2

CAN-Variante 3 / docking crane, analogue joystick

- Suction start-stop
- Undocking arm venting and unlocking
- Analogue joystick for docking crane
- Lifter up/down
- Linkage unlocking + linkage auto-folding (optional)
- Turning point management
- Spreading start-stop
- Partial width left – right



CAN variant 3

ISOBUS

The Wienhoff liquid manure trailer can also be operated via the ISOBUS system of your tractor. For this purpose we have linked the AUX-N and TS-SC (Taskcontroller Section Control) functions with our controller. This enables convenient control of your Wienhoff liquid manure trailer via the tractor joystick as well as precise spreading on the field.

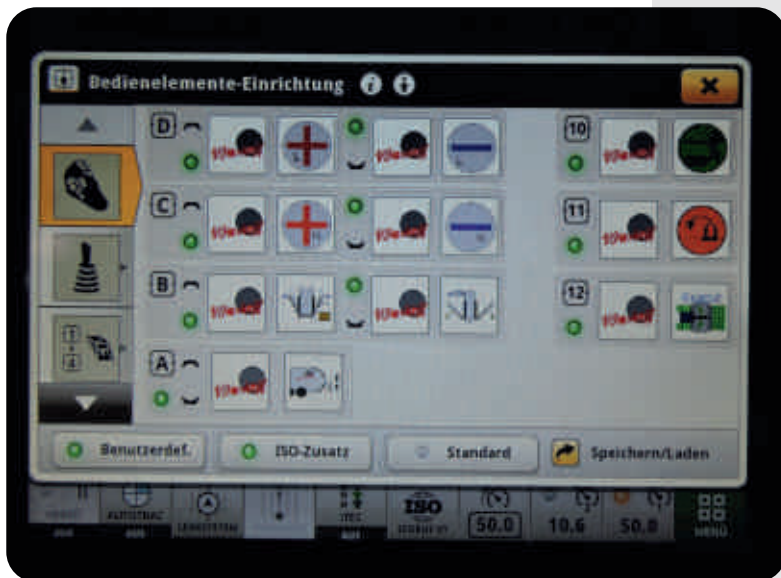
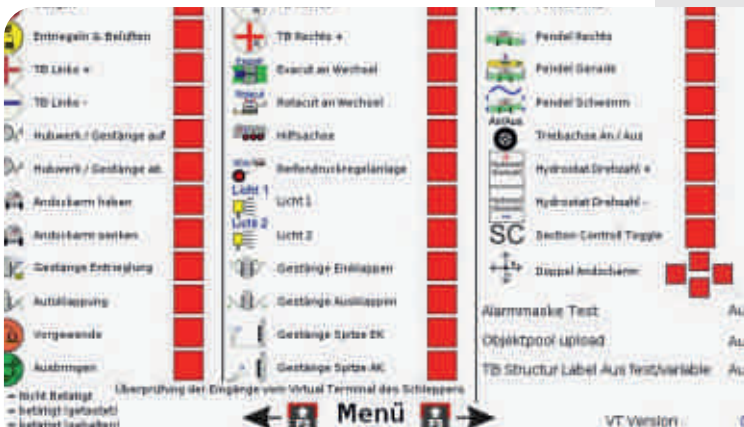
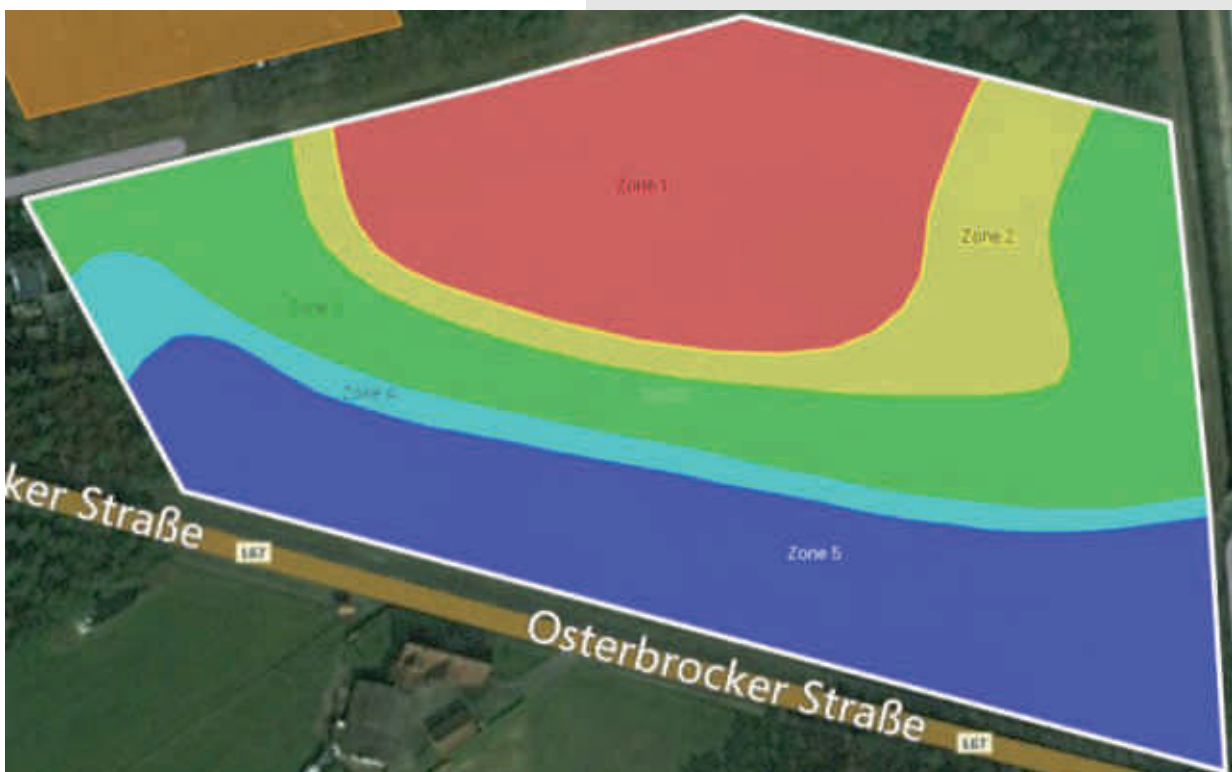


Illustration of the AUX functions on Command Center 4



Function pool – Wienhoff AUX functions

Through an application map, an NIR sensor or a preset setpoint on the tractor, the task controller specifies a spreading quantity that the Wienhoff liquid manure trailer spreads with the help of the hydrostatic pump drive.



Example map with reconstructed values

Comfort controller



WieTaCon COMFORT



WieTaCon COMFORT – view of basic menu

With the WieTaCon COMFORT controller, you can place and operate the individual functions anywhere on the display. You can program simple turning point sequences individually yourself.

The image from a rear view camera can be displayed if desired.

The control of the RDA and the display of the throughput rate are possible.

Toggle switches on the control box in the tractor execute the direct work of a hydraulic function HK via individual switching relays in the control cabinet on the liquid manure trailer on the hydraulic block, but don't offer the option of convenient sequential switching, automatic functions and storage as with the WieTaCon 12.1 controller and CANTouchLight.



Auxiliary box for vacuum tank trailer



Auxiliary box for pump tank trailer



Auxiliary box for pump tank trailer with hydrostatic pump drive

Auxiliary boxes for comfort operation and WieTaCon 12-1:

Auxiliary box for vacuum compressors

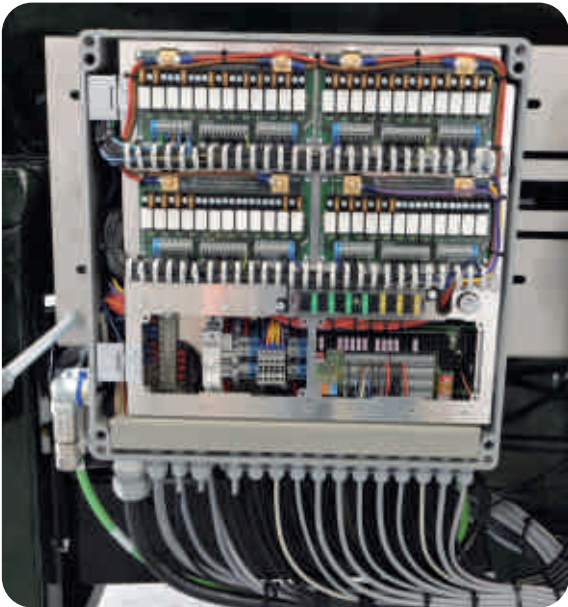
- Hydraulic switching between suction/pressure
- Suction accelerator on/off

Auxiliary box for pump tank trailer

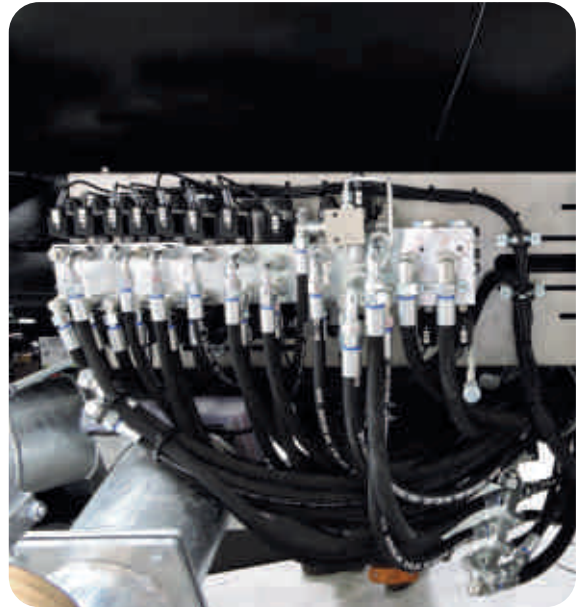
- Suction start/suction stop
- Rotation direction reversal of the RotaCut

Auxiliary box for hydrostatically driven rotary piston pump

- Raise/lower the pump speed
- Suction start/suction stop
- Rotation direction reversal of the RotaCut



Individually protected coils and sensors prevent system failures and potted coil plugs fitted with LEDs ensure reliable opening of the valves



Hydac hydraulic block

The sandwich design of our hydraulic system enables a modular structure for all functions on your liquid manure trailer in a functional overview.

From 120 l/min up to a 150 l/min base block, we process the full hydraulic volumetric flow that you deliver to us at the hydraulic coupling.



Large return collectors clear the way to your tractor's hydraulic oil tank



Preliminary pressure filters with display of the degree of soiling prevent dirt in our hydraulic system



Hydraulic manometers on the front of the tank visually display the states of the hydraulic system to the driver

DRIVING AXLE

The first of this type in Europe with regard to load capacity and power transmission!

A driving axle causes hardly any ground damage, in particular with difficult soil conditions, and extends the operating time. The higher efficiency and low tractive force requirement also reduce fuel consumption. At the same time, there is less stress on the drive units and the components of the tractor. Last but not least, the clean ground contour guidance allows an exact work image to be achieved over the entire working width of the injection devices.



Single-axle trailer with driving axle

Your advantages at a glance:

30 tonne load capacity of the axle body and wheel motors

60 kW drive power of the wheel motors is infinitely adjustable and adaptable

Velocities

forward: 1-15 km/h

reverse: 1-6 km/h

Up to 6 km/h can be switched in while driving

No increased tractive force required on the road

Operation via the Wienhoff "WieTaCon12" controller OR via ISOBUS AUX-IN

Hill start assistant



Rear view of single-axle trailer with slitting device



Change of the driving tracks after switching in the driving axle



Single-axle trailer with underfoot cultivator

The operating principle of the Wienhoff driving axle

The Wienhoff driving axle works in a hydraulically "closed" circuit. Only a 100 l oil tank is required for a volumetric flow of 240 l/min and a maximum pressure of 350 bar of the "hydrostatic drive", as only 50 l/min have to be continuously given off via a purge valve for cooling.

We have already been using this "hydrostatic drive" for a long time to drive the rotary piston pumps on our liquid manure trailers for the exact regulation of the spreading quantity. With this single-axle trailer we work via a tandem gearbox driven by the tractor's PTO to operate both hydrostatic drives:

- Rotary piston pump drive
- Driving axle drive

LEVELTUNER

Safety advantage through load regulation and brake systems



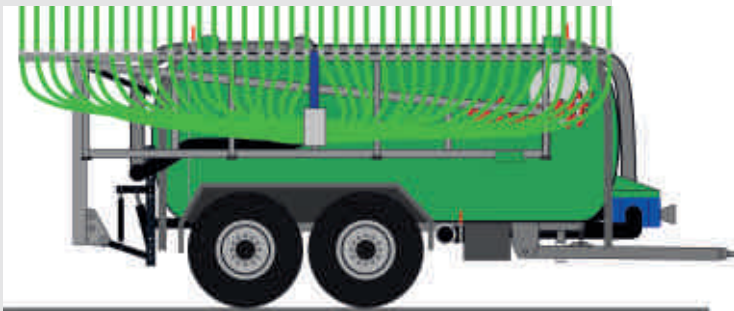
Your advantages at a glance:

Optimum drawbar supporting force through automatic adjustment of the load distribution

Avoidance of critical driving situations thanks to roll stability program (RSP)

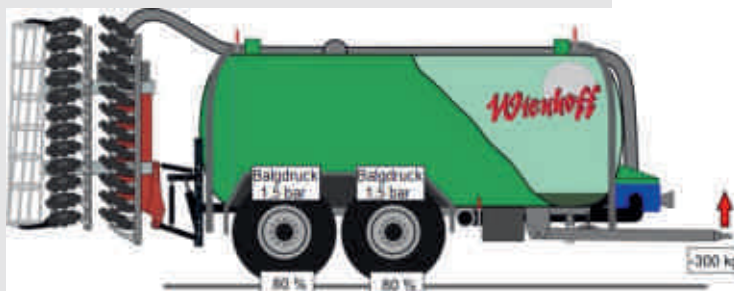
Improvement of steerability and directional stability when braking thanks to anti-lock braking system

Drag hose, retracted, loading state FULL



The drawbar supporting force is within the permissible range with appropriate geometrical design of the tank trailer. Therefore, the system for adjusting the air suspension pressure does not need to intervene. The air suspension pressure and braking force are on both axles.

Short disc harrow, loading state EMPTY



The drawbar supporting force is negative **WITHOUT** the system for adjusting the air suspension pressure. The air suspension pressure and braking force are the same on both axles. This may cause the wheels on the first axle to lock.

Short disc harrow, loading state EMPTY



The drawbar supporting force is positive **WITH** the system for adjusting the air suspension pressure. The air suspension pressure in the first axle is lowered and the braking force is reduced.

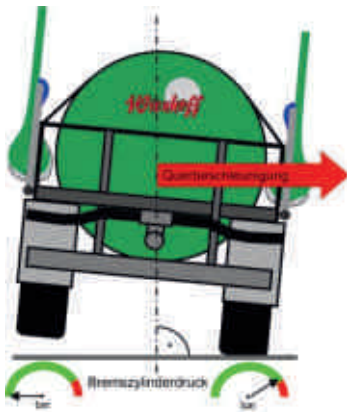
Roll stability program

The roll stability program is an active safety system that counteracts the rearing up or tipping over of the liquid manure tank trailer in critical driving situations by automatic activation of the service brake system!

Factors that influence the critical upper limit of the transverse acceleration are:

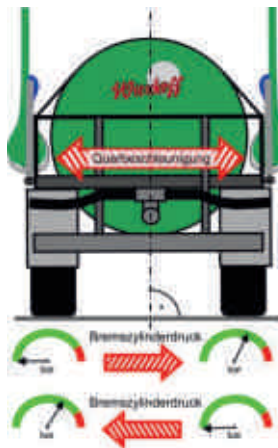
- Vehicle geometry (height of centre of gravity, track width)
- Loading state
- Speed of travel
- Bend radius and road camber

Brake intervention in case of danger of tipping over:



If a critical transverse acceleration is reached during a journey, for example due to a collision avoidance manoeuvre, the roll stability program initiates the braking of the wheels at the outside of the curve, which stabilises the tank trailer.

Brake intervention in case of rearing up:

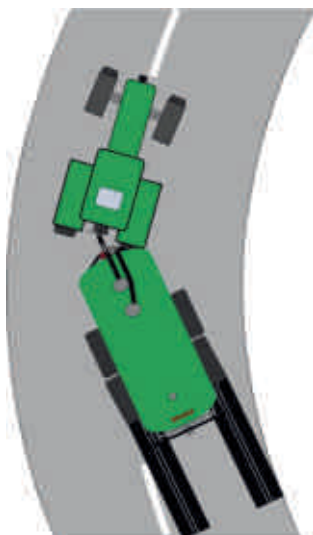


If the tank trailer rears up laterally during the journey, the roll stability program intervenes with targeted brake actuations before the driving behaviour becomes uncontrollable and would lead to the tank truck tipping over.

Anti-lock braking system

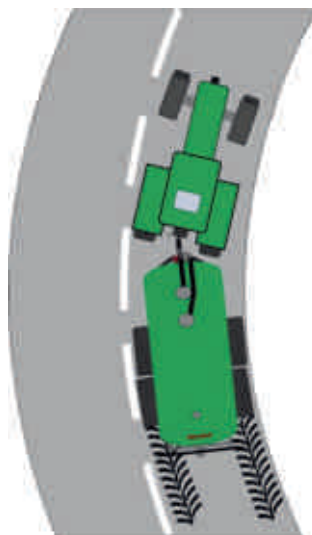
The anti-lock braking system is an essential function within the brake module. It serves to increase the driving safety and driving stability of the liquid manure tank trailer when braking and reduces the wear on the running surfaces of the wheels.

Without anti-lock braking system:



Braking sharply without ABS when driving around a bend can lead to the wheels of the tank trailer locking. In extreme situations it is possible for the tank trailer to break away. In addition, braking with locked wheels causes a longer braking distance and uneven tyre wear.

With anti-lock braking system:



The speeds of the individual wheels on liquid manure tank trailers with anti-lock braking system are continuously monitored. If a wheel is about to lock, the ABS intervenes to ensure stable, directionally accurate driving behaviour of the tank trailer with unrestricted steerability of the combination.

NOTES!

Your contacts in Bawinkel!



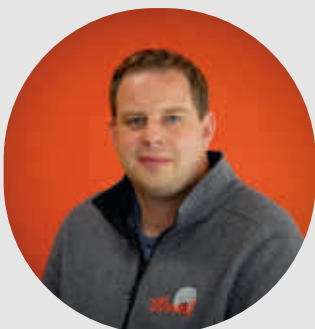
Andreas Dieker
Managing Director

+49 5963 91955-0
+49 152 01638770
dieker@wienhoff.de



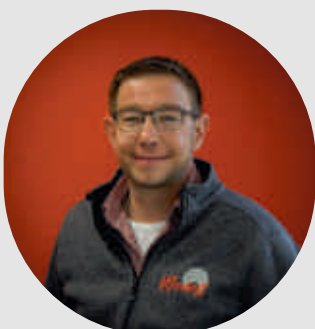
Matthias Vehring
Sales

+49 5963 91955-13
+49 176 56305729
vehring@wienhoff.de



Christoph Brinkmann
Sales

+49 5963 91955-14
+49 151 72188409
brinkmann@wienhoff.de



Johannes Lögering
Internal sales

+49 5963 91955-15
+49 151 51769767
loegering@wienhoff.de





Tobias Suilmann
Warranties

+49 5963 91955-17
gewaehrleistung@wienhoff.de



Günther Christoph
Purchasing

+49 5963 91955-20
christoph@wienhoff.de



Jonas Pölker
Service/ Workshop
+49 5963 91955-45
serviceleitung@wienhoff.de



Christoph Bramkamp
Spares part warehouse

+49 5963 91955-50
ersatzteillager@wienhoff.de

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Osnabrück

You can find us here!



This way to
YOUTUBE!!

Landmaschinen Wienhoff GmbH
Im Sande 50 | 49844 Bawinkel

+49 5963 91955-0
info@wienhoff.de
www.wienhoff.de

