

HOLMER

Terra Variant

Terra Variant 435 | Terra Variant 650

YOUR STRONG PARTNER IN THE FIELD



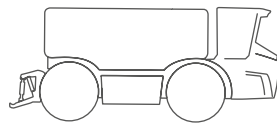
**ALWAYS ONE
STEP AHEAD**



"Whether the small Terra Variant 435 or its big brother, the Terra Variant 650: we build the vehicle that's perfect for you."

ERHARD FORSTER

Prototype construction



Slurry application for tomorrow's agriculture

In 1969, company founder Alfons Holmer took over his father's smithy in Eggmühl. As a talented blacksmith, he pursued the goal of making farmers' work easier. His self-propelled sugar beet harvester revolutionized agriculture.

Today, HOLMER Maschinenbau GmbH sets international standards in agricultural technology. The primary goal is at all times to facilitate fieldwork. The success is based on professional excellence, creative freedom and procedural expertise. That is why HOLMER machines are always thorough-

ly thought through as a concept and precisely geared towards your requirements.

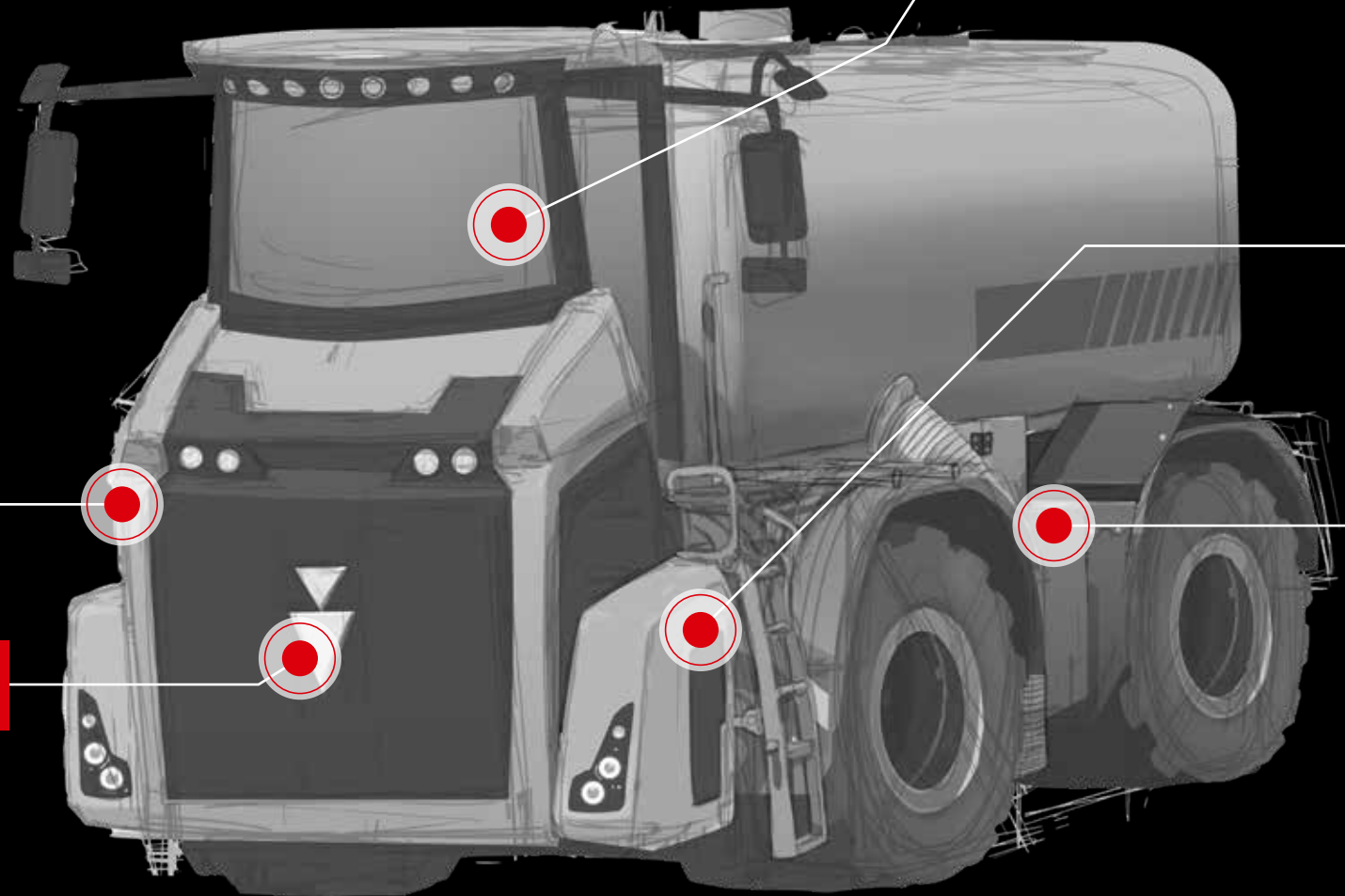
In 1996, the Terra Variant revolutionized slurry spreading. It offers impact force – whether for heavy soil cultivation or crop fertilization, closes nutrient cycles and reduces ammonia emissions. With GPS, driver assistance systems, and digital connectivity, it has been consistently refined and already meets the requirements of tomorrow's agriculture.

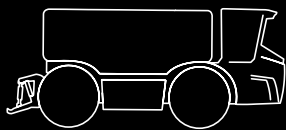
WHAT MAKES A TERRA VARIANT SPECIAL?

Design combining functionality
and safety.

The workplace that makes childhood
dreams come true.

The beet that makes the vehicle
part of the HOLMER family.





Technology that is always
one step ahead.

The concept that focuses
on agricultural land.

Terra Variant

**MORE THAN JUST
A FEELING**



THE TERRA VARIANT FAMILY

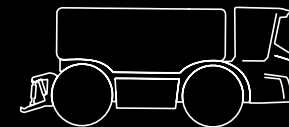


Terra Variant 650

Efficiency through impact

- ▶▶ 652 HP / 480 kW
- ▶▶ 21 m³ slurry tanker body
- ▶▶ 21.7 t unladen weight with slurry body
- ▶▶ Power-split continuously variable transmission
- ▶▶ Maximum pulling power for intensive working
- ▶▶ Slurry pump with 11,800 l/min
- ▶▶ Lowest fuel consumption

STRONG TOGETHER



The slurry tanker for everyone

- ▶▶ 435 HP / 320 kW
- ▶▶ 16 m³ slurry tanker body
- ▶▶ Lightest self-propelled slurry tanker with a curb weight of only 16.7 tons
- ▶▶ Constant weight distribution and wheel loads under 10 t even when filled
- ▶▶ Maximum maneuverability with a turning circle of 6.8 m
- ▶▶ Lowest tire pressure in its class with a minimum of 1.2 bar
- ▶▶ Hydrostatic drive

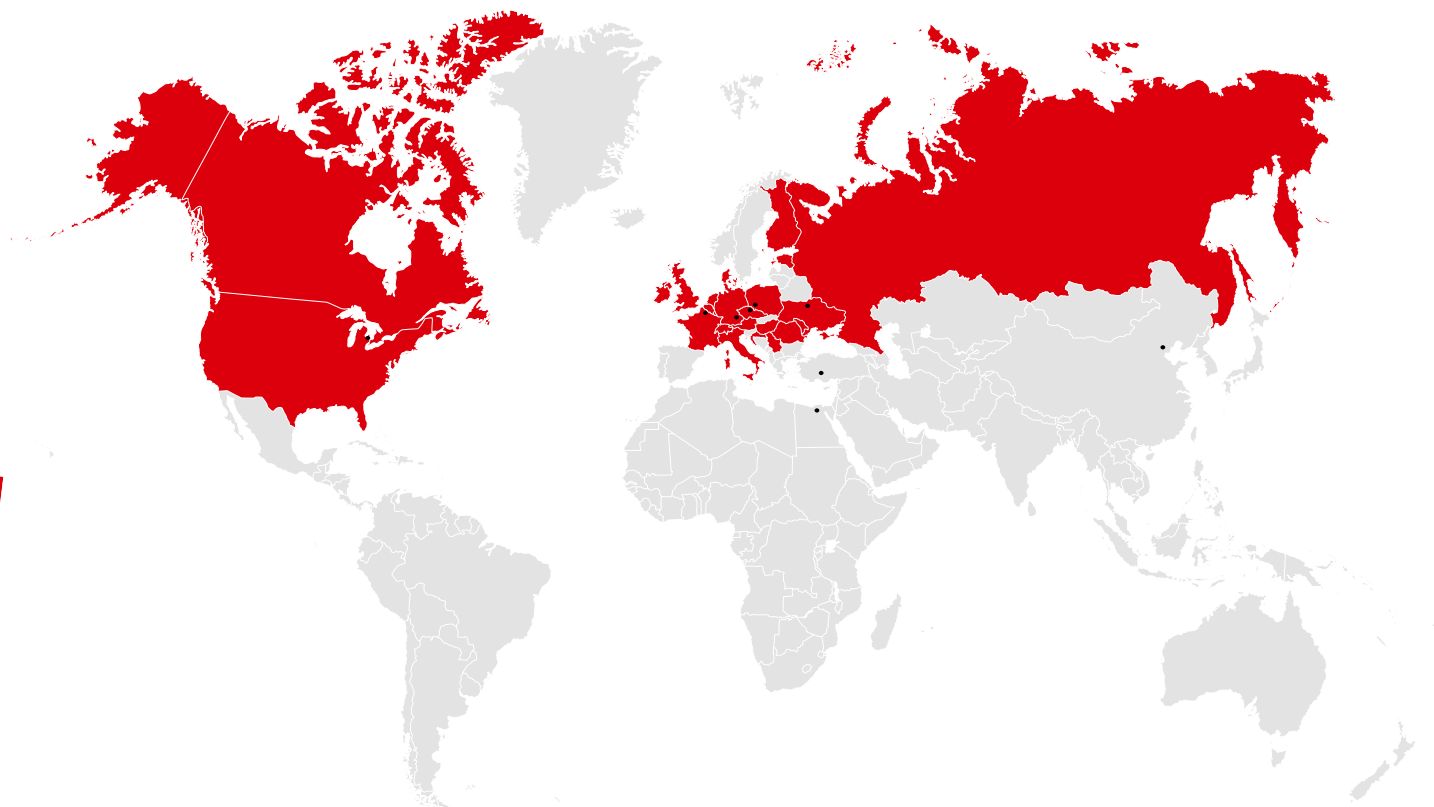
Terra Variant 435



Our experience is your success

HOLMER has been manufacturing the Terra Variant since 1996. Almost 500 machines have proven a success in international use for more than 25 years. Farmers and contractors in more than 15 countries are achieving success with the Terra Variant.

Developing the Terra Variant 435 was clearly geared towards building a small, lightweight, vehicle that is perfectly designed for slurry spreading on crops, especially in small-scale farming areas. The Terra Variant 650 is designed for high output rates combined with intensive slurry incorporation.



The Terra Variant is thus not just a machine. It is the concept for powerful and sustainable work – for everyone. This enables you to make efficient and environmentally friendly use of the ever-shorter processing periods.

At HOLMER, 400 employees worldwide work daily to ensure that the Terra Variant inspires you. Progress and passion characterize our collaboration. Our machines are technologically advanced. Worldwide. For your success.



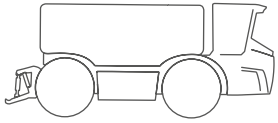
"We opted for the Terra Variant to cultivate our fields because it is both powerful and gentle on the soil in crab steering mode. We are very satisfied with HOLMER technology."

GEORG AUGUSTIN

Agrargenossenschaft Doberschütz

FOUR TIRES FOR YOUR FIELD





The Trac

Protecting agricultural soil is our top priority. A low vehicle weight, a high rollover speed, a carried load (as opposed to a towed one) and the right driving strategy are the decisive factors. The large-volume tires complete the Trac concept. The Terra Variant combines optimal ground protection, maximum pulling power, a long wheelbase and surprising maneuverability with ideal body volume.

Tires

The Terra Variant can be equipped with MICHELIN CerexBib tire technology. These tires allow for low internal tire pressure of at least 1.2 bar or 1.8 bar with a contact area of up to 0.87 m² or 0.84 m² per wheel for optimum ground protection. The high rollover speed also contributes to this. Tires with a grassland tread pattern are available to protect the turf. The Terra Variant can be equipped with corn rollers for use in row crops.

Agility

With a turning circle of just 6.8 m or 11.0 m and two planetary steering axles, the Terra Variant is extremely maneuverable. Its long wheelbase and specially adapted frame guarantee optimum stability in every situation. The comfort chassis with 3rd and 4th axles for road travel guarantees safety in road traffic.

Tanker space

When working with heavy loads, it is important that the body space is ideally positioned on the carrier vehicle. The engine in front of the front axle serves as a counterweight to attachments at the rear. This is the only way to guarantee perfect weight distribution – and this is essential for protecting the ground and ensuring driving comfort, especially with large transport capacities. Supported loads rather than pulled loads form the basis for all floor protection.



Terra Variant 435

Crab steer

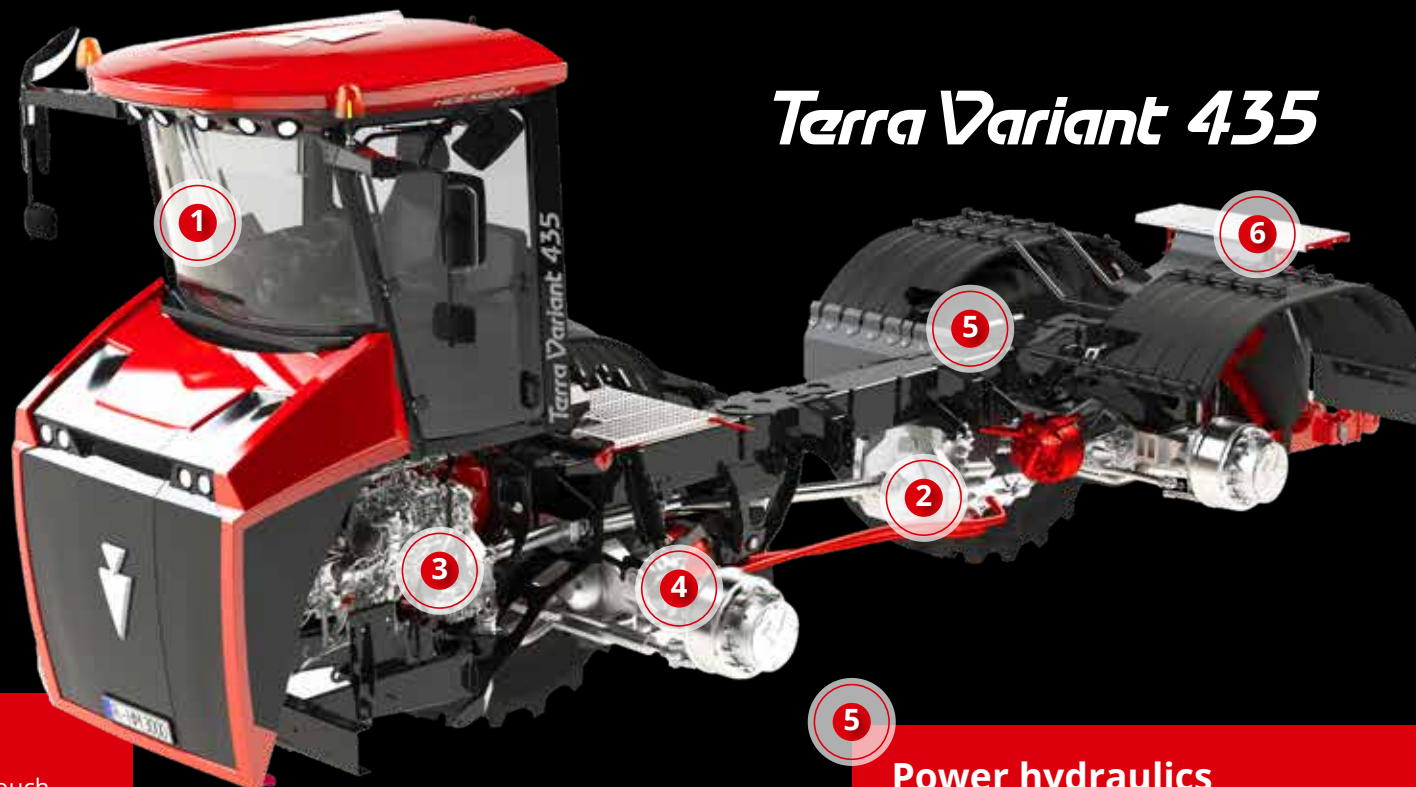
Track-shifted driving ensures that each surface is only rolled over once. Each wheel has its own track. The weight is evenly distributed thanks to the four wheels, which are all the same size. This consistently prevents soil compaction. Payload and towing force are transmitted over a wide area via the large contact areas of the tires in the gentle drive – with optimum slip values at the same time. This is how you truly protect the soil. The Terra Variant has the following driving modes: all-wheel steering, gentle driving left/right, rigid driving, manual steering and road driving.



Terra Variant 650

CONCEPT

Terra Variant 435



1

HOLMER SmartDrive

- ▶ HOLMER EasyTouch with 12.1 inch touch terminal
- ▶ Integrated slurry technology control
- ▶ Ergonomic joystick with speed dial buttons
- ▶ Jog dial for terminal control
- ▶ Three-point and rear valve control
- ▶ Vehicle diagnostics

3

Diesel engine

- ▶ Mercedes Benz OM 470 Stage V
- ▶ 435 HP / 320 kW

5

Power hydraulics

- ▶ Load-sensing pump maximum 202 l/min
- ▶ Hydraulic supply for slurry technology: Danfoss H1 P 130 variable displacement pump with maximum flow rate 313 l/min

6

Rear hydraulics

- ▶ Hydraulically swiveling three-point hitch on both sides
- ▶ Category III with 70 kN lifting capacity
- ▶ Three-point loading and unloading
- ▶ 3 double-acting control units
- ▶ Load sensing and power beyond

2

Traction drive

- ▶ Hydrostatic drive with single axle drives
- ▶ Maximum speed up to 40 km/h
- ▶ Driver assistance system HOLMER DynaProtect

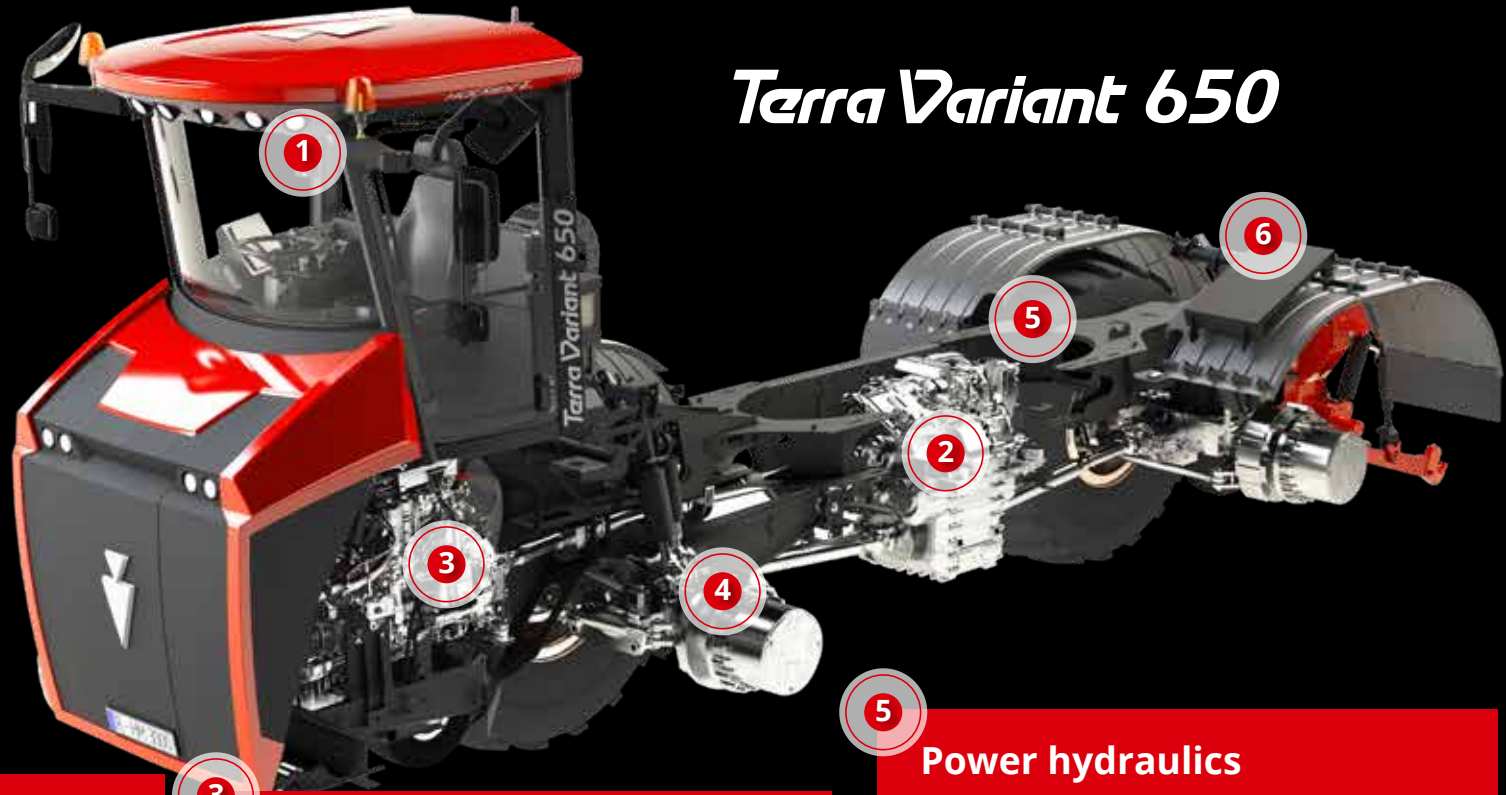
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Chassis

- ▶ 2 planetary steering axles
- ▶ Hydraulically suspended pendulum axle at the front
- ▶ Slope stabilization system

OUR IDEA FOR YOUR SUCCESS

Terra Variant 650



1

HOLMER SmartDrive

- ▶ HOLMER EasyTouch with 12.1 inch touch terminal
- ▶ Ergonomic joystick with speed dial buttons
- ▶ Jog dial for terminal control
- ▶ TerraControl headland management
- ▶ Three-point and rear valve control
- ▶ Vehicle diagnostics

3

Diesel engine

- ▶ Mercedes Benz OM 473 Stage V
- ▶ 652 HP / 480 kW
- ▶ AdBlue exhaust gas treatment

4

Chassis

- ▶ 2 planetary steering axles, each with a load capacity of 25 tons
- ▶ Hydraulically suspended pendulum axle at the front
- ▶ Slope stabilization system
- ▶ Preselectable pressure level

5

Power hydraulics

- ▶ Load-sensing pump maximum 190 l/min
- ▶ Hydraulic supply for slurry technology: Bosch A4 VG 145 variable displacement pump with maximum flow rate of 328 l/min

6

Rear hydraulics

- ▶ Hydraulically swiveling on both sides Three-point
- ▶ Category IV with 80 kN lifting capacity
- ▶ Three-point loading and unloading
- ▶ BUCHER BHR control hydraulics
- ▶ 5 double-acting control units
- ▶ Load sensing and power beyond

2

Traction drive

- ▶ Power-split continuously variable transmission
- ▶ Maximum speed up to 40 km/h

**PERFORMANCE
AND ECONOMY
ARE NOT
MUTUALLY
EXCLUSIVE**





THE ENGINE

Power

Mercedes-Benz engine technology makes the Terra Variant the most efficient carrier vehicle. With 435 hp / 320 kW or 652 hp / 480 kW, traction forces are efficiently converted and loads are supported in a way that protects the ground, even under difficult conditions. The engine facilitates a low-speed concept: the maximum torque of 2,100 Nm or 3,100 Nm at 1,300 rpm enables the Terra Variant to operate at optimum performance at all times. The automotive speed control system takes the strain off the driver and optimally coordinates all parameters.

Consumption

The performance-dependent automotive speed control of the diesel engine also ensures that it always runs at optimum fuel consumption when in operation. Cruise control allows driving speeds to be maintained without the driver having to operate the accelerator pedal. When driving on the road, the speed of the diesel engine is also reduced automatically, saving fuel during transfer journeys. Low diesel consumption guarantees optimal cost control.

AdBlue

The Terra Variant complies with Stage V emissions standards. AdBlue ensures that nitrogen oxides produced during the combustion process are converted into pure nitrogen and water during exhaust aftertreatment to protect the environment. To simplify the refueling process, the diesel and AdBlue fuel filler flaps are located next to each other on the left side.

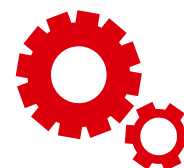
Cleanliness and maintenance

In the Terra Variant, the diesel engine is located in front of the front axle, where it is cleanest. The motor draws in clean fresh air, especially during dusty operations. To clean the cooling elements, a hydraulically reversible fan with time control is installed as standard on the vehicle.

The engine compartment is spacious and ergonomically accessible for regular maintenance work. The central lubrication system integrated in the engine compartment supplies all important lubrication points on the vehicle. The lubrication intervals can be set individually.

APPLY POWER WHERE IT IS NEEDED

Traction drive



Driving comfort was a primary development goal for the Terra Variant. Both the hydrostatic drive in the Terra Variant 435 and the power-split transmission in the Terra Variant 650 offer continuously variable driving from 0 km/h to 40 km/h (road travel) and from 0 km/h to 30 km/h (field travel). The precise controllability guarantees the most efficient power transmission with maximum pulling power. Both vehicle models are equipped with a generously dimensioned brake system: The Terra Variant 435 has low-maintenance drum brakes, while the Terra Variant 650 has powerful disc brakes. An optional air brake system is available for the use of towed attachments.

Terra Variant 435



DynaProtect



Only flying is more soil protecting.

Two single-axle drives without a mechanical connection between the front and rear axles via cardan shafts enable the Terra Variant 435 to feature the unique HOLMER DynaProtect driver assistance system, which optimally protects the soil and crops during slurry incorporation. After the driver has selected "Grassland/Cereals" or "Row Crops/Stubble," the system adjusts itself fully automatically. On flat ground, the system ensures that the wheels roll evenly without rushing ahead, preventing damage to growing crops or turf and reducing slippage.

On grassy slopes, the front axle's preload increases slightly – the vehicle is stabilized safely while minimizing damage to the ground. On sloping terrain with row crops, the advance is increased further to ensure directional stability and thus protect the crop.

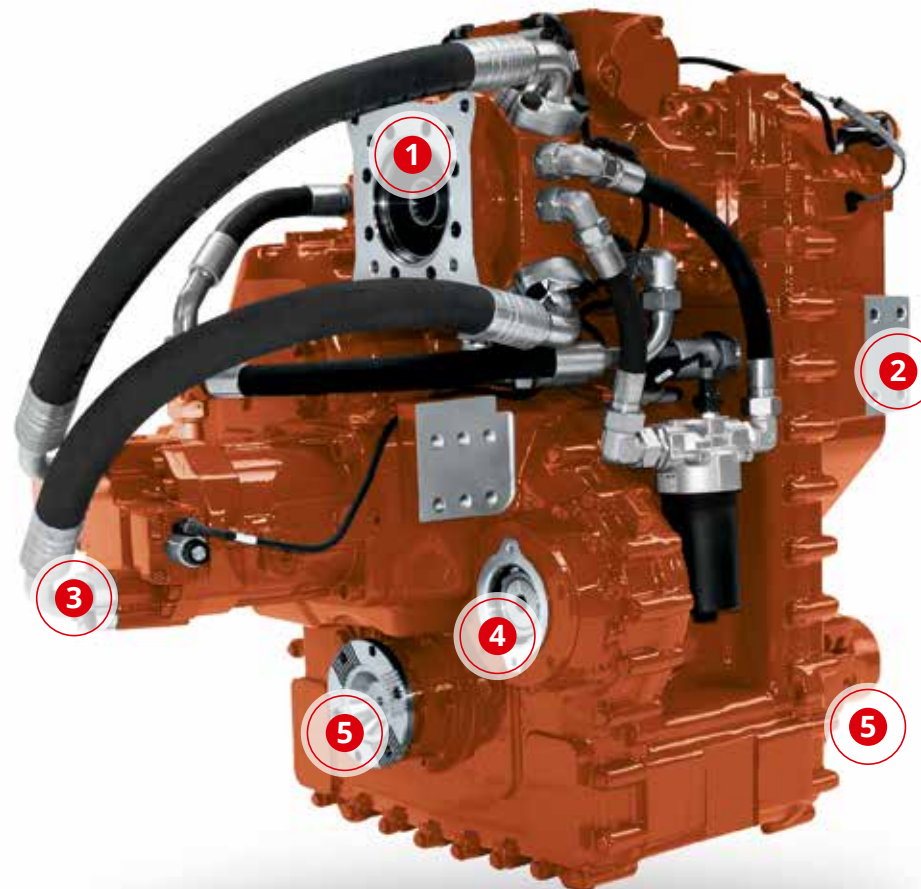
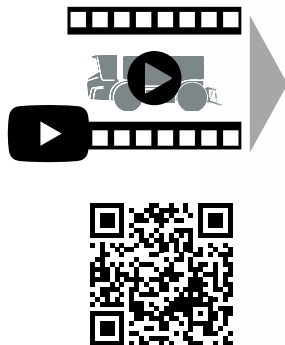
When reverse gear is engaged, the lead automatically switches to the rear axle. This makes driving safe and easy and guarantees the smallest turning radii. All settings are dynamic and depend on the information reported live by the slope sensor. In road driving mode, a consistent zero advance is automatically set to protect the tires and minimize fuel consumption.

Terra Variant 650

Gearbox

HOLMER and German axle and transmission manufacturer Kessler developed the LV 3000 CVT transmission specifically for the requirements of the Terra Variant 650. HOLMER exclusively installs this transmission in its slurry technology range.

When starting from 0 km/h to 5 km/h, maximum tractive force is available and the vehicle operates purely hydrostatically in this performance range. In the main working range of 12 km/h to 15 km/h, the transmission is 100% mechanical, ensuring maximum efficiency. A speed of up to 40 km/h on the road is already achieved at a fuel-efficient 1,250 rpm.



1

►► Output for hydrostatic slurry pump
145 cm³ Bosch Rexroth

2

►► Hydraulic pump 280 cm³ Bosch Rexroth

3

►► 215 cm³ Bosch Rexroth hydraulic motor

4

►► Output emergency steering pump

5

►► Output cardan shaft

SAFETY IN ALL SITUATIONS





Terra Variant 435



Terra Variant 650



Front axle suspension and slope support

Safety and consistently high driving comfort are guaranteed by the unique HOLMER front axle suspension with slope support and fully automatic, infinitely variable level control. In conjunction with the wheelbase of 4.26 or 4.76 m and the wide Terra tires, the Terra Variant masters slopes with maximum driving stability.

For optimum adaptation to the terrain, both vehicles have a pendulum-mounted front axle with full freedom of movement. The slope support pressure can be locked on the Terra Variant 435 and adjusted on the Terra Variant 650. To provide maximum driving comfort, the suspension remains active even when the slope supports are locked.

DELIVERS WHAT IT PROMISES



Terra Variant 435



Three-point

The Terra Variant 435 has a Category III three-point linkage for attachments weighing up to 3 t. The Terra Variant 650 is equipped with a Category IV three-point linkage, which allows for maximum choice of attachments. The Terra Variant's fully hydraulic rear power lift has been specially developed for professional slurry application. Only the Terra Variant has this unique technology.

Through two or a single horizontally positioned swivel cylinder and mounting on the main frame, the entire three-point mount is automatically swiveled to the left or right. All connection points between the vehicle and the attachment are at all times in a straight line with each other, even when traveling sideways, thanks to the fully swiveling frame. This ensures that the material can optimally absorb the forces during slurry application – maximizing the durability of the components. The three-point freewheel can be easily adjusted via the terminal.



Terra Variant 650

The Terra Variant has 3 or 5 double-acting control units for controlling the attachments. The time and amount of oil pumped can be conveniently set via the terminal. The three-point hitch is equipped with load sensing and power beyond as standard, making it suitable for a wide range of attachments. The BUCHER BHR standard hydraulics round off the adjustment options in the Terra Variant 650.

A loading or unloading device is integrated for slotting devices. At the touch of a button on the terminal, the driver can either apply pressure to the attachment in dry conditions or relieve pressure in wet conditions.

For maintenance-free operation, the three-point hitch is integrated into the central lubrication system.



ONLY FLYING IS MORE SOIL PROTECTING



Spring fertilization

Organic fertilization in spring is becoming increasingly important as application periods are becoming shorter. During the growing season, nitrogen requirements are high, so that the fertilizer applied can be used perfectly by the plants. Those who make optimal use of this window of opportunity will work in an environmentally friendly manner and thus be fit for the future.

As a light and agile vehicle, the Terra Variant 435 really comes into its own in the field. Thanks to its extremely small turning radius of just 6.8 m, it is also ideal for use in small-scale farming areas,

where it helps to make optimum use of limited time windows by enabling fields to be worked quickly. Especially in spring, the low weight of the Terra Variant 435 is an unbeatable advantage for driving through crops without damaging the soil. The coordinated power reserves enable driving speeds of 13 km/h when spreading slurry close to the ground. At the end of a working day, the Terra Variant can look back on impressive results: The small Terra Variant can handle more than 1,000 m³ of slurry in a single working day – even in small-scale areas.

The Terra Variant 435 sets new standards in terms of output in corn fields and other row crops. With its soil-friendly VF 580/85 R 42 tires, it fits easily between the corn rows regardless of the wheel tracks and delivers the organic fertilizer where it is needed – directly to the plant roots. The tight turning radius allows for track-to-track driving at the headland. This prevents the plants from being unnecessarily rolled over – a decisive advantage over conventional, towed slurry technology. Depending on the attachment, the Terra Variant 435 can also apply fertilizer late in the season to standing crops without damaging the plants.

Another method is becoming increasingly important in corn crops: hoeing. A combined process of slurry spreading and simultaneous weed control

“The Terra Variant 435 is the lightest self-propelled transporter on the market. We spread most of the slurry on growing crops in the spring because it is extremely gentle on the soil and very maneuverable, even on small areas.”

WOLFGANG TEIFELT

Farmer

in corn crops at the optimal time is not only of interest to organic farms. In addition to mechanical weed control, hoeing has other advantages: compacted and crusted surfaces are broken up and organic nitrogen in the soil is further mineralized, and rain can seep into the soil more easily again. This hacking method ensures stable stocks and high yields.



WE TRANSFORM THE NIGHT INTO DAY



Lighting

The lighting concept of the Terra Variant makes night as bright as day. This guarantees optimum visibility even during nighttime operations. The machine's working area is illuminated up to 100% by a maximum of 31 LED spotlights, ensuring maximum safety when suctioning or monitoring the attachment – especially at night.

The LED headlights, each with up to 3,400 lm, ensure optimum illumination in the field and on the road. The four powerful 1,950 lm LED low beam and high beam headlights, which come as standard, are equipped with daytime running light rings and enable relaxed driving on the road.

With more than 50,000 lm, the Terra Variant turns night into day. The headlights installed on the slurry body additionally illuminate the attachment area.





YOUR FEEL GOOD WORKPLACE



Cabin

Design

The dynamic design makes the Terra Variant unmistakable – angular, striking, powerful. The forward-sloping hood, side-mounted suction pipe and integrated exhaust muffler give the driver perfect all-round visibility from the cab – for even greater safety in the field and on the road.

Driving comfort

The proven HOLMER Comfort Cab II guarantees relaxed machine operation around the clock on the Terra Variant. The hydrodynamic cabin suspension reduces shocks and thus ensures optimum ride comfort. A powerful automatic climate control system and tinted heat-insulating glass are installed to ensure a comfortable working environment. The excellent sound insulation reduces the noise level to a maximum of just 65 db.

Ergonomics

The driver is at the center of all developments at HOLMER. That is why all controls are driver-centric and ergonomically arranged. The generous amount of space with storage compartments creates a feeling of personal freedom in the workplace. The HOLMER SmartDrive operating concept and various driver assistance systems reduce the strain on the driver.

Driver's seat

The ergonomic seat from GRAMMER ensures maximum driving comfort during long periods of use. It automatically adjusts to the driver's weight, provides cushioning and ensures a comfortable climate through active seat ventilation. Combined with a pneumatic lumbar support and shock absorption, this allows the driver to remain relaxed and highly focused on their work. For cold working days, the Terra Variant comes with seat heating as standard.



THE OPERATING CONCEPT





HOLMER SmartDrive

HOLMER SmartDrive is the intuitive operating concept for HOLMER machines. The combination of touch terminal, joystick, jog dial and three-point control panel ensures that every desired function can be accessed quickly and easily. Freely programmable buttons and quick access ensure relaxed working because the driver is our most important person. The integrated vehicle diagnostics also guarantee fast service support.

HOLMER EasyTouch

The 12.1-inch touch terminal provides all the information at a glance for easy and safe operation. Vehicle and body functions are displayed directly on the HOLMER EasyTouch terminal. On both Terra Variant models, operation of the slurry technology is fully integrated in the HOLMER EasyTouch.

The task controller offers the option of working with application maps for specific areas. Application rates are documented via order management in the terminal. Optionally, the terminal can be connected to the agrirouter via mobile communications, enabling wireless data exchange.

EVERYTHING IN VIEW



Driver assistance systems

Technical solutions support and relieve the driver. He should concentrate entirely on his actual task, namely delivering outstanding work.

GPS steering system

Guidance systems help to reduce driver fatigue, save operating costs and conserve resources by ensuring precise connection driving. In addition, tracks that have already been processed can be recorded with centimeter precision and reused for subsequent processing steps.

Depending on the steering system, AB lines can be used for simple parallel driving and A+ lines for stubble cultivation with a preselected angle to the working direction. For boundary turns in contour mode, adaptive curves are possible, and identical curves can be used for one-time obstacle avoidance.

REICHHARDT[®]
electronic • innovations





Terra Variant 650

HOLMER TerraControl

The headland management system on the Terra Variant 650 automatically handles all the desired processes, reducing the workload for the driver during long operations. The driver combines the desired settings, such as crab steering on, lowering the attachment, slurry pump on and activating fixed speed driving. All relevant vehicle and body functions can be individually saved in different sequences. The fine settings for the individual processes can be adjusted in the terminal.

EFFICIENCY THROUGH IMPACT

“Personally, I couldn’t imagine anything better. I’ve got 21 m³. I step on the gas, lower the disc harrow or slotting device and it just pulls away.”

HANS HUBER

Inn-Salzach slurry community



The logistics chain

Fast and cost-effective delivery of farm slurry is crucial in the separate collection process. All vehicles in the chain are based on the key machine – the Terra Variant. This results in low fuel and wear-and-tear costs for all vehicles throughout the entire slurry spreading system.

The feeders must therefore be optimally adapted to road transport. Trucks or tractor-trailers are possible. The number of feeder lines depends on the transport distance and the route structure. The barrel size of the feeders, in turn, depends on the Terra Variant, with a wide variety of solutions having proven themselves in practice.

The tank volume of the Terra Variant 650 of 21 m³ combined with extremely short suction times of approx. 2.5 minutes allows for minimal downtime for the supply vehicles.

The Terra Variant 650 really comes into its own when combined with intensive tillage equipment such as disc harrows or StripTill machines. When spreading slurry and tilling the soil at the same time, high working speeds of 15 km/h on average and more are achieved. Professional contractors with a well-organized logistics chain can spread more than 3,500 m³ of slurry in 24 hours using the Terra Variant 650.

This extends the effective working hours for spreading and ensures efficiency. With the Terra Variant 650, you are well prepared for shorter application windows.

ZUNHAMMER SLURRY TECHNOLOGY



The slurry tanker body

The Terra Variant with proven ZUNHAMMER slurry technology: The most powerful answer to the challenges of slurry spreading today and tomorrow. Whether high mineral fertilizer prices, stricter regulations for application and environmental protection, or the resulting shorter processing times for the application of valuable organic farm slurry, the Terra Variant saves on trips and work steps, thereby reducing costs in crop production. Combined with individually combinable attach-

ments, the Terra Variant works valuable organic farm slurry into plant stocks or stubble in a powerful, environmentally friendly and soil-conserving manner. The Terra Variant concept protects soil structure and plant populations in a sustainable manner.

**WIR WISSEN
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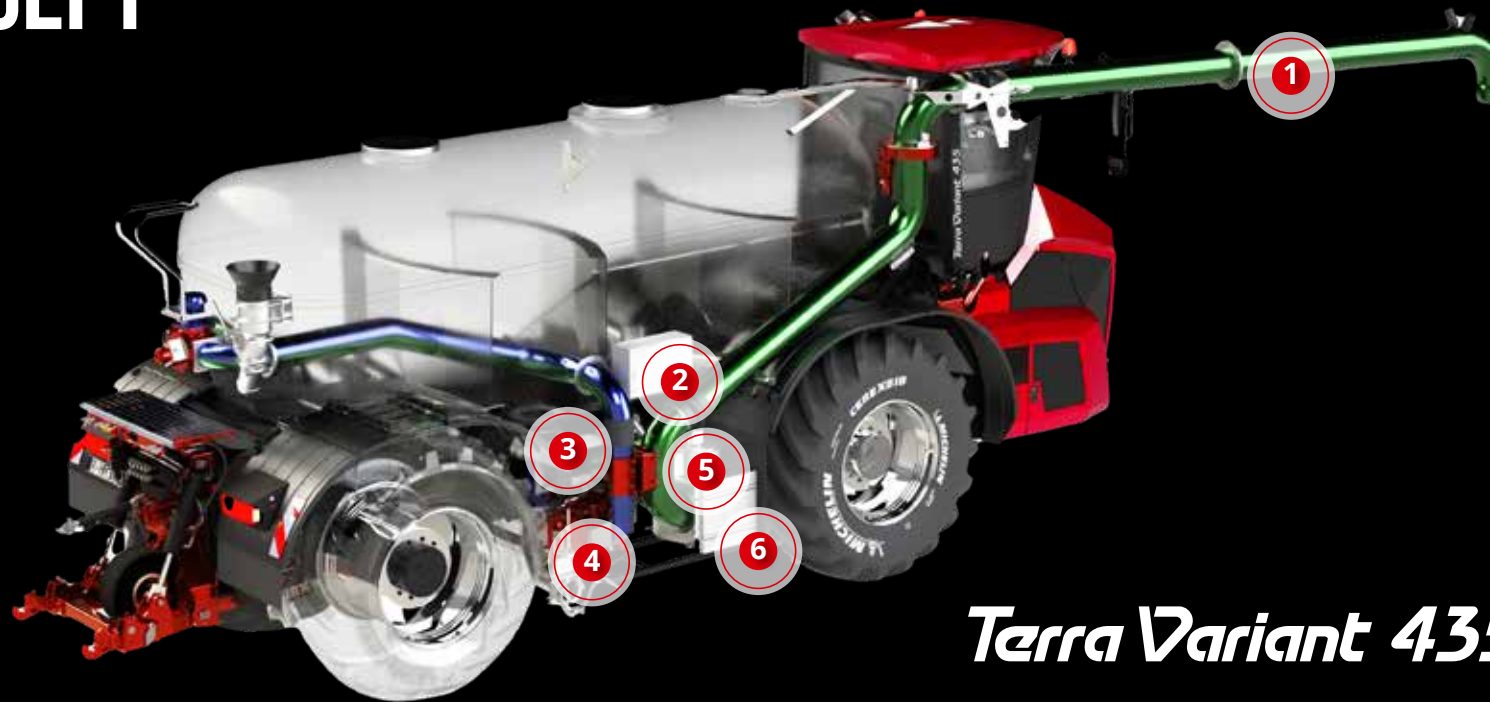
...Nährstoffmessung
an Bord!



- 
- ▶▶ 16 or 21 m³ capacity
 - ▶▶ VOGELSANG pump system
 - ▶▶ VOGELANG RotaCut® cutting unit
 - ▶▶ Side suction
 - ▶▶ Automatic folding intake pipe
 - ▶▶ Straight line cable routing
 - ▶▶ Optional: VAN-Control nutrient measurement system



CONCEPT



Terra Variant 435

1

Intake line

- ▶▶ GfK or steel intake manifold
- ▶▶ Suction pipe 5.7 m, 158° sideways swivel
- ▶▶ Intake pipe with automatic flap control operable via joystick
- ▶▶ NW 250 mm with specially adapted guide
- ▶▶ Intake at idle speed at 900 rpm or 850 rpm
- ▶▶ Automatic shutdown of the filling process
- ▶▶ Barrel emptying possible via suction arm

2

Tanker body control

- ▶▶ Fully automatic control of the application rate
- ▶▶ Preparation for ZUNHAMMER VAN-Control
- ▶▶ Integrated operation of slurry technology
- ▶▶ Section control and order management

3

Pressure-side lines

- ▶▶ NW 200 mm
- ▶▶ Integrated 3-way valve and 2 hydraulic valves
- ▶▶ Cable routing through the tank made of fiberglass reinforced plastic
- ▶▶ Hydraulic DropStop



Terra Variant 650

4

Rotary lobe pump

- ▶▶ VOGELSANG VX 186-368 QD, aluminum design, with a maximum delivery rate of 9,000 l/min
- ▶▶ Optional for the Terra Variant 650: VOGELSANG VX 215-320 Q with a maximum delivery rate of 11,800 l/min
- ▶▶ Control of slurry suction and spreading via joystick

5

Cutting unit

- ▶▶ Terra Variant 435: RotaCut® 10000 MXL with maximum flow rate of 10,000 l/min.
- ▶▶ Terra Variant 650: RotaCut® RCX-58 H with maximum flow rate of 12,000 l/min.

6

ACC - automatic cut control

- ▶▶ Adjustable cutting blade pressure for different types of slurry
- ▶▶ Automatic change of rotation direction
- ▶▶ Hydraulic stone trap slide valve

THE HEART



Pumping technology

The proven high-performance VX 186-368 QD rotary lobe pump from VOGELSANG guarantees reliable high suction and pumping capacities of up to 9,000 l/min. With the Terra Variant 435, 16 m³ of slurry can be sucked up in approximately two minutes.

With the Terra Variant 650, it takes less than three minutes to fill the 21 m³ slurry tank. The VOGELSANG VX 215-320 Q rotary lobe pump with a maximum flow rate of 11,800 l/min is also available as an option for the large Terra Variant. This enables even higher suction power and greater flexibility for large working widths and volumes. The suction time is reduced by approximately half a minute.

VOGELSANG
ENGINEERED TO WORK



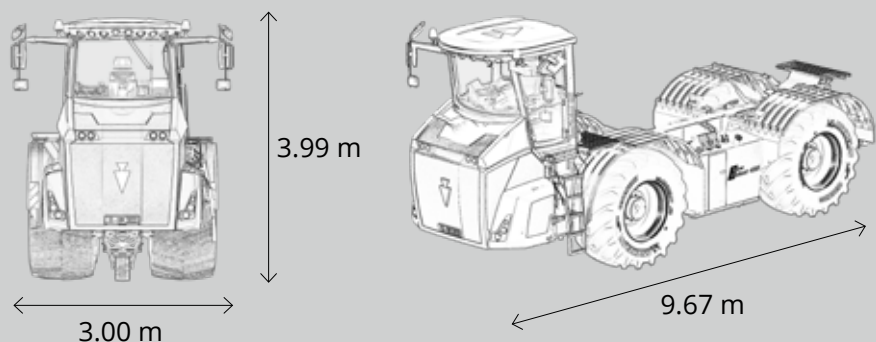
All rotary lobe pumps are directly driven by a two-stage hydraulic motor. This enables optimal suction and greater spreading of application rates.

HiFlo® pistons and the standard Quick Service design guarantee long service life, low maintenance costs, and minimal pulsation in all pumps.

Cutting unit

For maximum protection of the slurry pump, the Terra Variant is equipped with the VOGELSANG RotaCut® 10000 MXL or RCX-58 H cutting unit as standard. Fibrous materials or foreign objects, such as grass, straw or stones are reliably cut up or separated. The high throughput capacity of the cutting screen also ensures cavitation-free operation of the rotary lobe pump during suction.

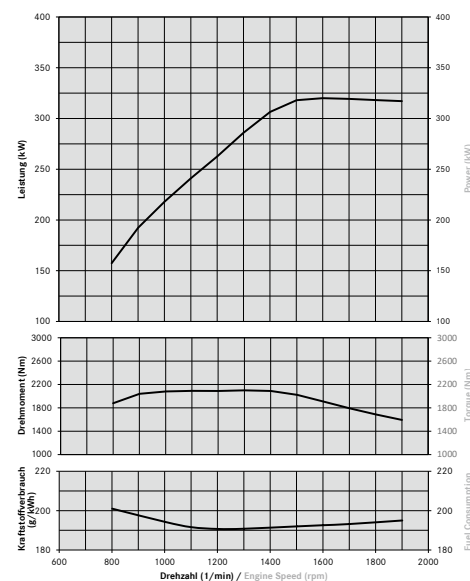




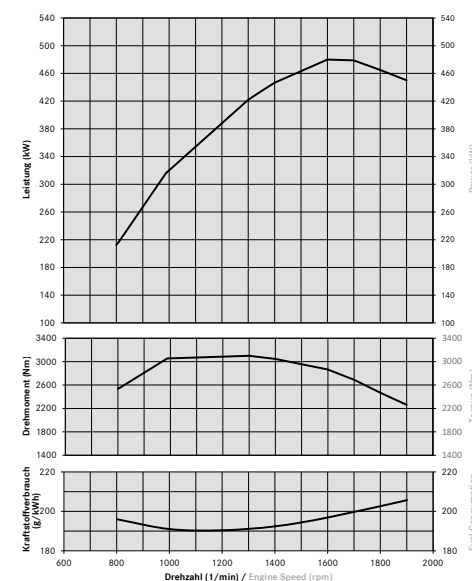
Terra Variant 435

Engine	<i>Terra Variant 435</i>	<i>Terra Variant 650</i>
Engine	Mercedes Benz OM 470 Stage V	Mercedes Benz OM 473 Stage V
Cylinder	R-6	R-6
Displacement	10.7 l	15.6 l
Rated speed	1,700 rpm	1,600 rpm
Rated power	320 kW / 435 hp at 1,700 rpm	480 kW / 652 hp at 1,600 rpm
Maximum torque at engine speed 1,300 rpm	2,100 N·m	3,100 N·m
	Automatic fan reversal	Automatic fan reversal
Fuel tank capacity	Approx. 640 l	Approx. 770 l
AdBlue tank capacity	Approx. 95 l	Approx. 95 l
Traction drive		
Traction drive	HOLMER DynaProtect, hydrostatic, continuously variable 0 km/h - 40 km/h	Kessler LV 3000 CVT transmission, continuously variable power split
Top speed	Up to 40 km/h when driving on roads (depending on country-specific regulations) Up to 30 km/h when driving on farmland	Up to 40 km/h when driving on roads (depending on country-specific regulations) Up to 30 km/h when driving on farmland
All-wheel drive	Permanently	Permanently
Axles		
Axles	2 planetary steering axles including axle drive	2 planetary steering axles

Differential locks	Front and rear axles pneumatically switchable	Front and rear axles pneumatically switchable
Axle suspension with integrated slope support	Single-suspension front axle swing arm: hydraulic suspension including level control, hydraulic support for side slope stability	Single-suspension front axle swing arm: hydraulic suspension including level control, hydraulic support for side slope stability
Chassis		
Steering modes	All-wheel steering, rigid steering, gentle steering left/right	All-wheel steering, rigid steering, gentle steering left/right
Tires		
	Ultraflex tire technology VF 900/60 R 38 CFO+ 193 A8 TL CerexBib2	Terra tires 1050/50 R 32 184 A8 MegaXBib T2 Grassland tread
	Tires for row spacing 75 cm (track 2.25 m) VF 580/85 R 42 CFO+ 183 A8 TL	CerexBib IF 1000/55 R 32 CFO
	CerexBib IF 1000/55 R 32 CFO 188 A8 TL (external width 3.30 m)	FloatXBib VF 1000/55 R 32 CFO
	VF 580/85 R 42 CFO+ 183 A8 TL CerexBib2 (outer width 2.55 m)	Twin tires for row spacing 75 cm VF 380/90 R 46 Spraybib 173 D TL
		800/65 R 32 (outer width 2.55 m)



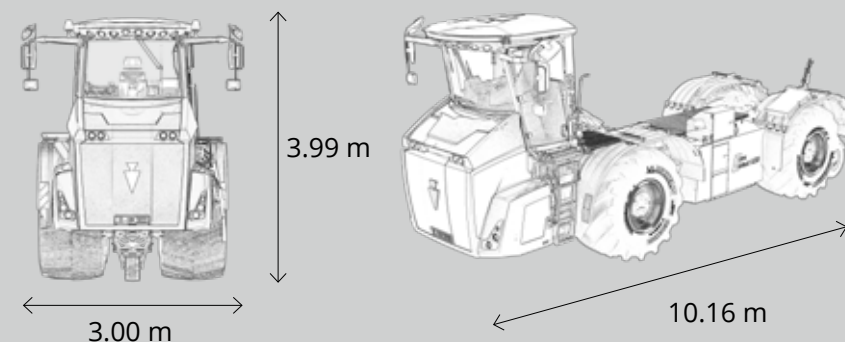
Terra Variant 435



Terra Variant 650

Brakes		
Service brake	Hydraulic drum brake	Hydraulic disc brake
Parking brake	Spring-loaded drum brake	Spring-loaded disc brake
Hydraulic system		
Hydraulic oil tank capacity	170 l	170 l
Load-sensing maximum flow rate	202 l/min	190 l/min
Power hydraulics (depending on equipment)		
Variable displacement pump (slurry main drive)	Danfoss H1 P 130	Bosch Rexroth A4 VG 145
Maximum hydraulic power	182 kW	191 kW
Maximum pressure	350 bar	350 bar
Maximum flow rate	313 l/min	328 l/min
Rear hydraulics		
Category	CAT III	CAT IV
Lifting capacity	70 kN	80 kN
Functions	Lifting, lowering, including loading and unloading, hydraulically swiveling on both sides	Lifting, lowering, including loading and unloading, hydraulically swiveling on both sides
BUCHER BHR control hydraulics	-	Traction, position, and mixing control Vibration damping
Rear connections	3 double-acting control units including neutral position Time and quantity control	5 double-acting control units including neutral position Time and quantity control
External actuation	Rear sensor	Rear sensor
Interfaces	Signal socket including speed signal and lift position	ISOBUS connection option Signal socket including speed signal and lift position
Power supply	24 V alternator 150 A 12 V supply 70 A	24 V alternator 150 A 12 V alternator 150 A
Comfort cabin		
	GRAMMER driver's seat All-round glazing and vent window Hydrodynamic cab suspension Automatic climate control DAB+ radio with Bluetooth hands-free system Rear hydraulic control panel Hydraulically tiltable for servicing	GRAMMER driver's seat All-round glazing and vent window Hydrodynamic cab suspension Automatic climate control DAB+ radio with Bluetooth hands-free system BHR control panel Hydraulically tiltable for servicing

Terra Variant 650



HOLMER SmartDrive	12.1-inch touchscreen terminal HOLMER EasyTouch Ergonomic multifunction armrest including joystick and jog dial with quick access buttons Integrated control of three-point functions Integration of superstructure control into the HOLMER EasyTouch	12.1-inch touchscreen terminal HOLMER EasyTouch Ergonomic multifunction armrest including joystick and jog dial with quick access buttons Integrated control of three-point functions Integration of superstructure control into the HOLMER EasyTouch
Lighting		
Headlight	2 x low beam headlights LED (1,950 lm) Incl. daytime running light ring 2 x high beam headlights LED (1,950 lm) Incl. daytime running light ring	2 x low beam headlights LED (1,950 lm) Incl. daytime running light ring 2 x high beam headlights LED (1,950 lm) Incl. daytime running light ring
Worklight	4 x LED (3,400 lm) hood 4 x LED (2,500 lm) front cab roof, close range 2 x LED (2,500 lm) rear cab roof 4 x LED (3,400 lm) front cab roof, long range 2 x LED (3,000 lm) front fender	4 x LED (3,400 lm) hood 4 x LED (2,500 lm) front cab roof, close range 2 x LED (2,500 lm) rear cab roof 4 x LED (3,400 lm) front cab roof, long range 2 x LED (3,000 lm) front fender
Central lubrication		
	BEKA-MAX, electronically controlled interval lubrication and manual operation adjustable via terminal	BEKA-MAX, electronically controlled interval lubrication and manual operation adjustable via terminal
Dimensions		
Total length including three-point hitch	9.67 m	10.16 m
Width	3.00 m with 900/60 R38	3.00 m with 1050/50 R32
Height	3.99 m	3.99 m

Wheelbase	4.26 m	4.76 m
Smallest turning circle	6.80 m	11.00 m
Hitching (optional)		
Drawbar	-	Ø 38 mm and 50 mm
Ball head	-	Ø 80 mm
Special equipment		
	2 x LED (3,400 lm) cab roof, side	2 x LED (3,400 lm) cab roof, side
	2 x LED (3,000 lm) rear fender	2 x LED (3,000 lm) rear fender
	Rear view camera for attachment	Rear view camera for attachment
	Compressed air brake system for trailer equipment	Compressed air brake system for trailer equipment
	Portable cooler	Portable cooler
	Trimble Ready® preparation	Trimble Ready® preparation
	Preparation TopCon Ready	Preparation TopCon Ready
		Preparation Reichhardt Ready
		HOLMER TerraControl headland management

Slurry technology ZUNHAMMER		
Structure	Permanently mounted top tank Lightweight, frameless GRP tank including integrated drain sump Corrosion-resistant 3 cross baffles including overflow Level indicator on the barrel and in the terminal	Permanently mounted add-on tank Lightweight GRP tank including side drain sump Corrosion-resistant 3 cross baffles including overflow Level indicator on the barrel and in the terminal Hydraulically tiltable for maintenance work
Tank capacity	16 cubic meters	21 cubic meters
Slurry computer control	Slurry computer integrated in the vehicle terminal Range display Application according to nutrient values in kg/ha possible Automatic speed control during oversucking Integrated operating concept in the multifunction lever	Slurry computer integrated in the vehicle terminal Range display Spreading according to nutrient values in kg/ha possible Automatic speed control during oversucking Integrated operating concept in the multifunction lever

Suction system	Side docking system NW 250 Length 5.70 m 158° swivel radius; hydraulically foldable, swivel angle can be saved Integrated automatic folding mechanism Automatic shutdown of the filling process Pneumatic ventilation valves for emptying pipe residues Over-suction process at idle speed 900 rpm	Side docking system NW 250 Length 5.70 m 158° swivel radius; hydraulically foldable integrated automatic folding mechanism Automatic shutdown of the filling process Pneumatic ventilation valves for emptying pipe residues Over-suction process at idle speed 850 rpm
Pipeline system	Suction lines: NW 250 mm (10 inches) Pressure lines: NW 200 mm (8-inch) Gate valve NW 250 (10-inch) hydraulically controlled, side-mounted 3-way valve NW 200 (8-inch) hydraulically controlled Suction connection NW 150 right with shut-off gate valve	Suction lines: NW 250 mm (10 inches) Pressure lines: NW 200 mm (8-inch) Gate valve NW 250 (10-inch) hydraulically controlled, side-mounted 3-way valve NW 200 (8-inch) hydraulically controlled Suction connection NW 150 right with shut-off gate valve
Lighting	4 x LED (2,500 lm) on light carrier, rear 1 x LED (2,500 lm) intake pipe	4 x LED (2,500 lm) on light carrier, rear 1 x LED (2,500 lm) intake pipe
Camera	Rear view camera on the body	Rear view camera on the body
Slurry pump		
Pump	Reversible rotary piston pump Tank can be emptied via suction pipe	Reversible rotary piston pump Tank can be emptied via suction pipe
Type	VOGELSANG VX 186-368 QD, aluminum version Quick-service design with HiFlo® piston	VOGELSANG VX 186-368 QD, aluminum version Quick-service design with HiFlo® piston
Delivery rate	Maximum 9,000 l/min continuously variable	Maximum 9,000 l/min continuously variable
Drive	Hydrostatic; hydraulic motor mounted directly on the pump, 2-stage	hydrostatic; hydraulic motor mounted directly on the pump, 2-stage
Cutting unit		
Type	Vogelsang RotaCut® MXL 10000	VOGELSANG RotaCut® RCX-58 H
Flow rate	Maximum 10,000 l/min	Maximum 12,000 l/min
Drive	Hydraulic	Hydraulic
Shredding technology	Replaceable cutting blades made of knife steel ACC Automatic Cut Control for consistent cutting blades pressure Adjustable contact pressure Auto-reverse function with automatic change of rotation direction Foreign object separation including hydraulic stone trap slide	Replaceable cutting blades made of knife steel ACC automatic cut control for consistent cutting blade pressure Adjustable contact pressure Auto-reverse function with automatic change of rotation direction Foreign object separation including hydraulic stone trap slide

Special equipment

Dosing system for nitrification inhibitors

Dosing system for nitrification inhibitors

VAN Control for nutrient-controlled slurry spreading

VAN Control for nutrient-controlled slurry spreading

(alternative) VOGELSANG VX 215-320 Q rotary lobe pump; maximum flow rate 11,800 l/min



Subject to change with a view to technical progress; approved by TÜV and the professional association; complies with CE regulations. Equipment depends on country-specific regulations.



100 % Recycling-Papier – mit Blauen-Engel zertifiziert



HOLMER



10/2025

HOLMER MASCHINENBAU GMBH

Regensburger Straße 20
D-84069 Schierling, Eggmühl,
GERMANY

☎ +49 (0) 94 51/93 03-0

✉ info@holmer-maschinenbau.com

🌐 www.holmer-maschinenbau.com

