

Smart farming for higher yields





All information on technical data, dimensions, weights, output, etc. and the images shown, are approximate and are not binding. The machines shown do not feature country-specific equipment and may include equipment that is not supplied as standard, or is not available in all regions. Your PÖTTINGER dealership would be pleased to provide you with more information.

Digital agricultural machines

Smart farming solutions have become an integral part of agriculture. They support farmers in the field as well as during planning and troubleshooting. PÖTTINGER provides farmers with exactly what they need, from telemetry solutions and control systems to the right software. This is how smart farming works.

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Digitalisation in agriculture



Digitalisation in agriculture

Digitalisation in agriculture is about advanced working methods designed to improve output, use resources more efficiently, and promote more sustainable farming.

For example, key agronomic data such as performance per field for each process, yield mapping, and site-specific seed rates, can be recorded digitally.

Digitalisation brings together three strategies:

Digital farming

Digital farming is about the extensive use of software applications in agriculture. This makes the most of developments involving AI, cloud systems, automation and robotics.

Smart farming

Also referred to as **Agriculture 4.0**, smart farming is about precise and optimised working practices that make use of things like sensor-based real-time systems for the application of fertiliser or plant protection products. Thanks to accurate and real-time data transmission, sensor technology can, for example, detect the biomass distribution of a crop and apply the right amount of fertiliser.

Precision farming

The first precision farming applications were introduced back in the early 1990s, with the aim of increasing production efficiency using digital hardware and software solutions.

Precision farming is about the site-specific management of farmland using intelligent technology.

Examples of precision farming include guidance systems and automated section control.

Digital agricultural machines



The significance of precision farming

Automated steering systems, data-controlled application of fertilisers and plant protection products, farm robots, drones, sensors and autonomous tractors. Thanks to modern technologies and the ongoing development of smart farming systems, the agricultural sector has managed to provide high-quality food and raw materials to more people than ever before.

Less agricultural land for a larger global population means that the available land must be used in the best possible way, i.e. with the utmost precision.

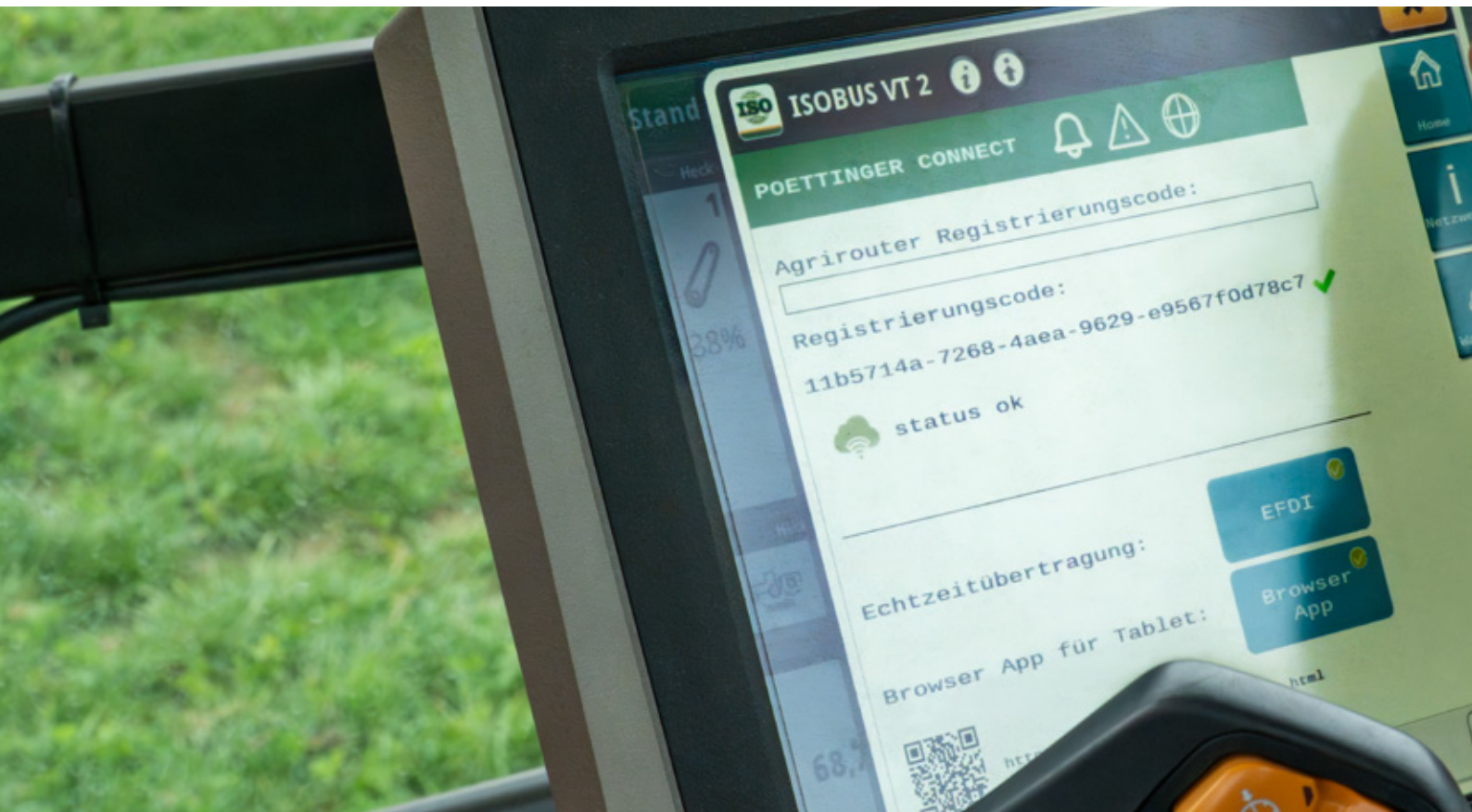
This is enabled by site-specific and precise sensor technology, combined with a comprehensive software solution. As a result, machines and implements can communicate with each other, record data, and assist farmers in their work, both in the field, and in the office.

A step into the future

PÖTTINGER agricultural technology continues to promote digitalisation.

An increasing offering of assistance systems, control terminals, and intelligent machines not only makes your day-to-day work easier, but also supports you in joining PÖTTINGER in our sustainable and resource-efficient approach to farming.

Operation



Intuitive user interfaces

With a choice of different control concepts, you have perfect control over your machine, even during long working days in the field. The development focused on maximum operating convenience and automation of each working step.

The result is a range of control systems offering the best concept to meet your specifications, from electronic preselect controls through to full ISOBUS terminals.

- Basicline preselect system
- Selectline preselect control system
- Smartline comfort control system
- Profiline comfort control system

Depending on the control concept, a choice of intuitive control terminals is available.

Everything under control

Finding the right hardware to match the software isn't as easy as it sounds.

That is why PÖTTINGER offers an extensive selection of controls. From simple toggle switches to touchscreens, you can choose the right control for your machine.

PÖTTINGER focuses on straightforward and intuitive operation: all controls are clearly laid out and activate exactly the function you need for your specific application.

Digital agricultural machines



CCI 1200 – the terminal for ISOBUS machines

The PÖTTINGER CCI 1200 provides a comprehensive ISOBUS display that meets all smart farming requirements and supports modern machine features. The intuitive layout makes it very easy to navigate.

Operation

Control concepts



Basicline preselect system

On machines with the Basicline preselect system, several functions can be carried out on the machine by each tractor spool valve by actuating a toggle switch on the BASIC CONTROL terminal.

For tractors with a sufficient number of spool valves, it is also possible to connect the hoses to each hydraulic cylinder as an option on some machines. This means that some functions can also be automated using the tractor's headland management system.

- Oil supply: Tractor spool valve
- Job calculator: –
- Possible controls
- BASIC CONTROL



Selectline preselect control system

With the Selectline preselect control system, the ISOBUS-capable job computer is located directly on the machine. This can be connected by an ISOBUS connection cable directly to the tractor terminal, or to the SELECT CONTROL terminal.

Several different functions can be carried out by each tractor spool valve at the touch of a button. Depending on the machine, various automatic functions are also possible. If the machine has its own hydraulic power unit, these functions are performed directly by the control terminal.

Direct connection of hoses to each hydraulic cylinder is also possible as an option on some machines. This means that some functions can also be automated using the tractor's headland management system.

- Oil supply: Tractor spool valve
- Job calculator: Mini ISOBUS ECU
- Possible controls
- SELECT CONTROL using machine cable
- Tractor terminal
- EXPERT 75

Digital agricultural machines



Smartline comfort control system

With the Smartline comfort control system, you can control your machine either using your ISOBUS-capable tractor terminal or other ISOBUS-capable control terminals.

While electrical functions are carried out directly at the touch of a button or the touchscreen, hydraulic functions (if installed) are either performed directly by the tractor spool valves, or are preselected at the control terminal and then carried out by the spool valves.

- Oil supply: Tractor spool valve
- Job calculator: ECU 3.0 (2.5)
- Possible controls
- POWER CONTROL
- EXPERT 75
- CCI 1200
- ISOBUS AUX CCI A3 joystick
- Tractor terminal



Profiline comfort control system

With the Profiline comfort control system, you can control your machine directly either using your ISOBUS tractor terminal or another ISOBUS-compatible control terminal.

Each function is carried out immediately by pressing a button or the touchscreen.

- Oil supply: Load sensing or power beyond system
- Job calculator: ECU 3.0 (2.5)
- Possible controls
- POWER CONTROL
- EXPERT 75
- CCI 1200
- ISOBUS AUX CCI A3 joystick
- Tractor terminal

Operation

Controls



BASIC CONTROL

The BASIC CONTROL preselect control system enables multiple functions to be performed by a single spool valve at the push of a toggle switch.

Depending on the model, an actuator for the hydraulic transport interlock is included.



COMPASS CONTROL

The COMPASS CONTROL on-board computer was specially developed for PÖTTINGER VITASEM and AROSEM seed drills. The terminal controls and monitors functions such as tramlining, calibration test, hopper level, hectare counter and speed.



SELECT CONTROL

The SELECT CONTROL terminal features a user-friendly design. With clearly assigned function keys and a 4.3" colour touch screen, many machine functions can be pre-selected and operated using the tractor's hydraulic remote valves or controlled directly. The brightness of the display and keyboard can be adjusted as needed, ensuring optimum illumination at any time of day or night.

Digital agricultural machines



POWER CONTROL

The entry-level POWER CONTROL terminal can be used to operate a wide selection of ISOBUS-capable machines made by PÖTTINGER. The most important feature is the keys that are printed with the relevant machine functions to ensure intuitive operation for both experienced and newbie drivers. More functions can be controlled and user inputs made using the 5" colour touch display. Optimised for day and night operation, the display also provides clear information on the operating status of the machine.



EXPERT 75

The compact 5.6" EXPERT 75 ISOBUS terminal can be operated both directly via the touchscreen and using keys or a scroll wheel. Safe one-hand operation is supported by the grip bar. The ambient light sensor and the illumination of the function keys ensure convenient handling even at night.



CCI 1200

The 12" CCI 1200 ISOBUS terminal offers the professional farmer a comprehensive function package. The terminal is operated like a tablet using a touchscreen. The menu system provides straightforward guidance. The integrated ambient light sensor automatically adjusts the brightness of the display.



ISOBUS AUX CCI A3 joystick

The AUX CCI A3 joystick makes it easy to control any of the ISOBUS-equipped machines. This is done using function keys that can be allocated freely and are separated by ridges. This avoids operator errors. Haptic feedback and all the icons displayed on the keys make it even easier to work with the joystick.

Operation

CCI 1200



Digital agricultural machines

The CCI 1200 is a compact ISOBUS terminal that meets all the requirements of modern farming whilst being easy to operate and configure.

Measuring 12.1 inches, the CCI 1200 is large enough to provide a clear display for a wide variety of applications, yet it still does not take up a lot of space when mounted in the cab. With this, you always have a clear overview of the machine, camera feed and the work area.

The touchscreen makes operation easy. Straightforward menu guidance leaves you more time for the important tasks.



One display with many functions

The CCI 1200 has an anti-reflective coating, responds quickly and offers intuitive operation, just like a smartphone. It can be used either upright or horizontally and provides a particularly clear overview of each application.

In addition, live images from up to eight analogue cameras and one digital camera can be displayed directly on the terminal, so no extra screen is needed.

Precision farming at a glance

When used in precision farming, the task controller terminal can be used for functions such as section control for up to 254 partial widths, flowrate control for variable application rates, and tramline control for creating precise tramlines. The integrated agrirouter interface enables seamless data exchange with farm management systems, so that jobs, application maps and documentation can be processed digitally.

Multiboom and Dual UT

The integrated Dual UT function allows two ISOBUS machines to be controlled simultaneously, e.g. when operating a TERRASEM and TEGOSEM together using ISOBUS functionality. The two machines are displayed side by side on the CCI 1200.

Multiboom can control up to four different functions on each machine, offering even more possibilities using a single terminal: Used together with the TERRASEM and AEROSEM VT, for example, the Profiline comfort control system can control the working depth of the power harrow/disc harrow, the coulters pressure and the two metering systems.

Operation

CCI 1200 activation options



Function-specific activations

The activation of task controller functions for your machines is just as flexible as your farming operations. That is why PÖTTINGER offers a flexible choice of activation options, rather than an all-inclusive package.

Each seed drill has different tasks, which are made possible using various task controller functions. Whether you need to lift sections of the machine (section control), control seed material flow (variable rate control), or control tramline switching: PÖTTINGER lets you choose the activation(s) that you really need on your machine.

The advantages of being able to choose the activations are:

- Increase yield and cost effectiveness with the density of plants adapted to the location for site-specific yield optimisation
- Account for differences in the soil and yield potential within a field during drilling
- Convenience: Reduces driver fatigue because the seed drill switches on and off automatically
- Increases efficiency and improves the cost effectiveness of the farm
- Saves resources
- Avoids overlaps and gaps when drilling seed and depositing fertiliser

Digital agricultural machines



Variable Rate Control (TC-GEO)

Variable Rate Control (VRC) features precision farming technology that variably adjusts the quantity of fertiliser, seed or plant protection product applied, and records geo-referenced data.

This means that different amounts can be applied to each area of the field. As a result, VRC enables site-specific application.

How does variable rate control work? There are 2 different approaches to using VRC: the offline approach or the online approach.

Offline approach

An application map is created using historical data (soil sample, etc).

Data acquisition: Detailed data on the field is collected (e.g. through soil analyses, yield maps from previous years, information on crop development).

Creating application maps: Application maps determine how much of a certain input (e.g. seed) should be applied in which part of the field.

Application: During application, the task controller uses GNSS data to regulate the machine (e.g. seed drill, fertiliser spreader) and adjusts the application rate in real time according to the application map created in advance.

Online approach

Plant and fertiliser parameters are recorded directly during the process using sensors.

For example, the quantity of N fertiliser can be adjusted using a sensor.

The advantages of Variable Rate Control

The advantages of VRC are the savings in input (seed, fertiliser, pesticides) on inferior areas of the field, as well as the increase in crop harvested in areas with higher yield potential.

Seed, fertiliser and plant protection material are distributed only as required in order to avoid wastage. This protects the environment: There is a lower impact on the soil and ground water.

The yield potential is also fully utilised while optimising cost effectiveness by using precise application rates.

The application of seed and fertiliser is reduced in areas of the field that are not as fertile.

The application of seed and fertiliser is increased in areas of the field with optimum yield potential.

The result is that the highest possible yield is achieved from the whole field.

Operation

CCI 1200 activation options



Section Control (TC-SC)

Section Control (SC) makes it possible to lift and lower individual hoe elements, or switch on and off specific coulter pipes, while driving.

How does section control work?

Using positioning data, the individual sections of a machine switch on and off, or lift and lower, automatically with pinpoint accuracy while driving, depending on the areas of the field already processed, or the field boundaries.

It is also possible to leave specific areas in the field free, such as the headland, to avoid overlapping.

The advantages of section control

In addition to minimising driver fatigue, section control helps to avoid inadvertent errors. This makes sure that, for example, row crops are drilled precisely to make the narrowest hoeing band possible.

Emergence is more uniform thanks to precisely drilled rows of seed, thus simplifying subsequent crop care measures.

What is more, overlaps are avoided by switching off individual sections. This means that fewer input resources are consumed.

Section control in practice

In addition to the hydraulic control system, the name 'Profiline comfort control system' also refers to the section control system on many machines. The Profiline comfort control system on the FLEXCARE row crop cultivator ensures that elements can be lifted individually at the headland or on wedge-shaped corners to protect against plant damage and areas being processed twice. The NOVACAT V 10000 mower combination controls the individual lifting of the mower units at the headland. The Profiline comfort control system is also available for seed drills and ensures, for example, section-by-section control on the AEROSEM VT and full part-width section control on the VITASEM.

In addition to section control, variable rate control and application maps can also be used with the TERRASEM universal seed drills via the TC-GEO task controller.

In combination with TERRIA or TERRADISC, the AMICO front hopper seed drill offers the possibility of applying fertiliser or micro-granules, cover crop seed material or two components simultaneously.

Equipping the hopper with ISOBUS as standard enables site-specific application (variable rate control), which ensures an increase in yield and cost effectiveness.

Digital agricultural machines



Tramline control

Using tramline control, the tramlines on the seed drill or the swath merging on the mower can be controlled automatically based on the current position data. This means the machine can use intelligent traffic lanes and minimise driver fatigue. To activate this function, a parallel tracking licence is required for the CCI 1200 terminal.

Tramline control in action

Tramline control enables seed drills such as the TERRASEM to work with intelligent traffic lanes. This ensures a small headland, a quick turnaround, and less soil compaction. The driver can concentrate fully on sowing, while the seed drill automatically detects the tramline rhythm and sows the tramline in the right place.

How do parallel tracking and tramline control work?

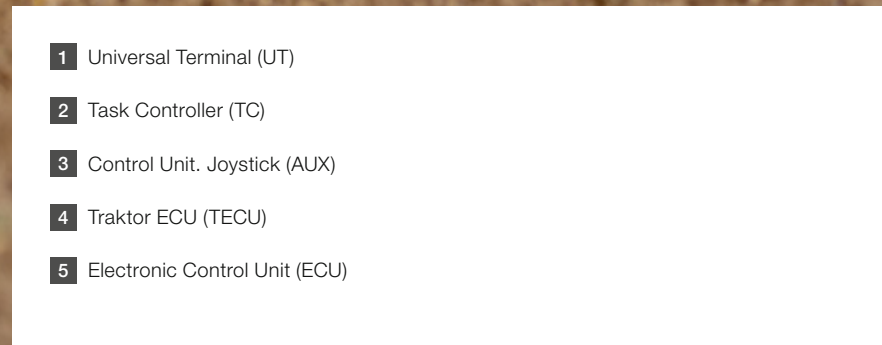
Parallel tracking is a parallel driving system that uses a light bar to indicate to the driver how to steer to follow the traffic lane. Parallel tracking also transmits information about the traffic lane and the direction the tractor drives along it. This information is required by the implement in order to be able to use tramline control.

The advantages of tramline control

The advantages of tramline control can be summed up as follows:

- Minimises driver fatigue
- Protects the soil by reducing movements at the headland
- Controls swath merging automatically
- Controls the tramline rhythm automatically
- Intelligent traffic lanes

ISOBUS



Digital agricultural machines

ISOBUS configuration on the tractor

The ISOBUS configuration on the tractor consists of an on-board network (CAN bus) which lets the tractor and implements communicate with each other.

The central components are the ISOBUS socket, the universal terminal (UT) in the cab, the task controller (TC) for job and application control, and an additional joystick for machine control (AUX).

The electronic control unit (ECU) on the implement and the tractor electronic control unit (TECU) collect data (e.g. driving speed, PTO speed, hitch, etc.), and control communication between the tractor and implement.

CAN bus

The CAN (Controller Area Network) is a standardised communication method used by electronic control units to exchange data quickly and reliably. It is used in agricultural machinery to transmit information such as sensor values and control commands using a shared bus cable.

The bus system offers many advantages in agriculture

- Reliable data transmission, even in harsh environments with vibrations and interference
- Fewer cables because all the control units communicate using the same bus
- High data transmission speed for real-time applications
- Manufacturer-independent thanks to standardised protocols
- Easily expandable as new control units can simply be integrated

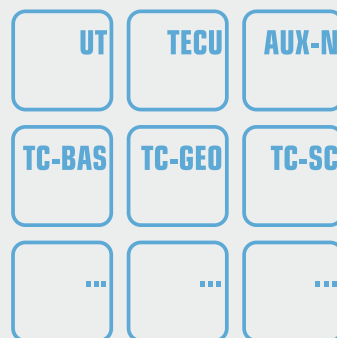


Operation

ISOBUS

AEF Certified

ISO BUS



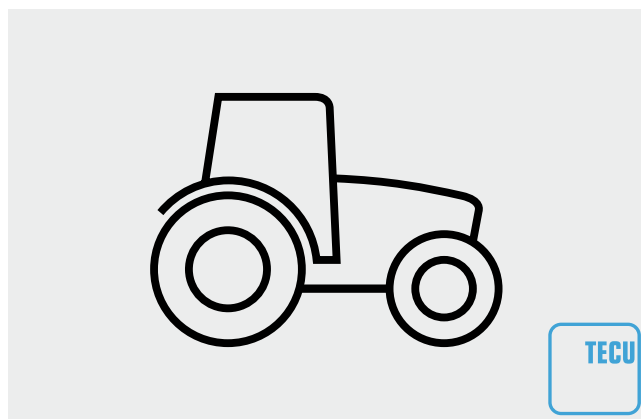
www.aef-isobus-database.org

A modern ISOBUS system consists of various components, including the tractor, control terminal, and the implement. It always depends on what the terminal and implement are able to do and what equipment options have been installed. This is where ISOBUS functionality comes in. This involves independent building blocks within the ISOBUS system. Each building block works as soon as all the components involved are able to carry out the required function.



UT: Universal Terminal

This basic function enables the operation of an implement using any terminal or to use a terminal to operate different farm implements. A single ISOBUS universal terminal replaces the large number of implement-specific terminals inside the tractor cab. Every implement can work with every terminal, as long as they support ISOBUS.



TECU: Basic tractor ECU

The tractor ECU is the tractor's job computer. The TECU application provides the other ISOBUS machines with key information about the tractor, such as driving speed and PTO speed.

Digital agricultural machines



AUX-N: Auxiliary Control

Auxiliary control allows you to control functions using an additional ISOBUS controller. This includes a joystick, which makes it easier to operate complex implements.



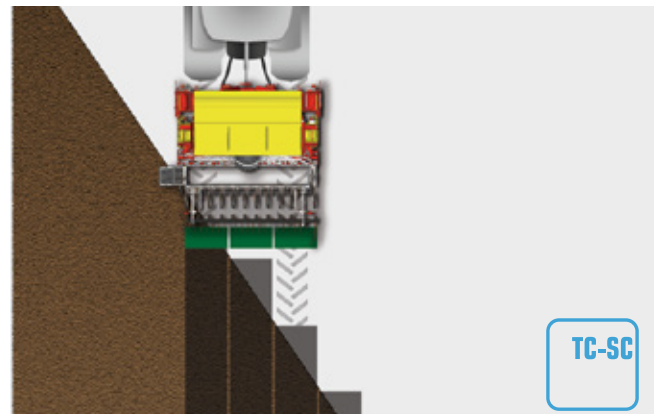
TC-BAS: Task Controller BASic

The task controller basic takes over the documentation of total values that are meaningful with regard to the work carried out. These values are provided by the implement. Data exchange between the field indexing software and the task controller (TC-BAS) takes place using the standardised ISO-XML data format. This makes it easy to import orders into the task controller and export the finished documentation afterwards.



TC-GEO: Task Controller GEO-based

This module offers the possibility to collect site-related data and carry out site-specific jobs using application maps for example. This function is relevant for Variable Rate Control.



TC-SC: Task Controller – Section Control

TC-SC enables the automatic switching of part width sections, e.g. on seed drills, depending on GPS location and the required degree of overlap. Section control can bring you higher yields with a simultaneous saving of 5 to 10% on the cost of materials.

(Source: www.aef-online.org)

ISOBUS

Wiring



Establishing communication between the tractor and the machine can sometimes be a challenge.

This is especially the case when the tractor and machine have different equipment options. PÖTTINGER has summarised the possible connection solutions to provide a clear overview.



Solution 1

The tractor is equipped with ISOBUS wiring and its own ISOBUS terminal to operate the machine.

Simply connect the machine's ISOBUS cable to the socket on the back of the tractor and start driving.

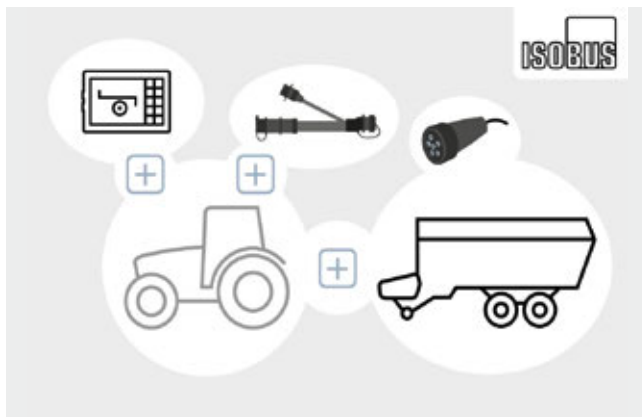


Solution 2

The tractor has ISOBUS wiring and the customer wants to use a PÖTTINGER ISOBUS terminal.

Simply connect the machine's ISOBUS cable to the socket on the back of the tractor, plug the PÖTTINGER control terminal into the ISOBUS InCab socket (integrated in the tractor) and start driving.

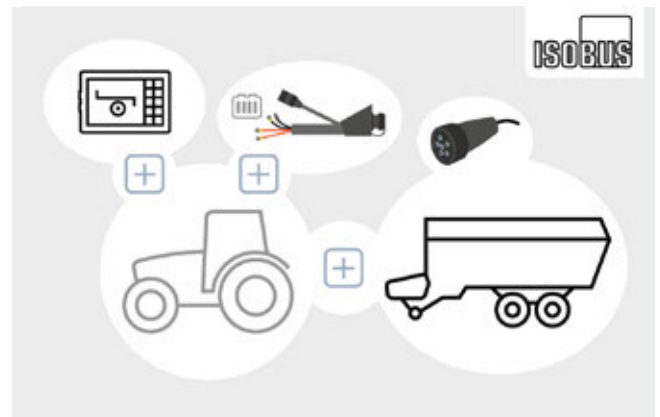
Digital agricultural machines



Solution 3

The tractor does not have ISOBUS wiring. The customer uses a PÖTTINGER control terminal.

Simply connect the ISOBUS tractor cab cable between the ISOBUS cable on the machine and the PÖTTINGER control terminal, and plug it into the 2-pole power socket located inside the tractor cab.



Solution 4

The tractor does not have ISOBUS wiring. The customer uses a PÖTTINGER control terminal to operate the machine and wants to retrofit the ISOBUS wiring permanently to their tractor.

To do this, route the ISOBUS tractor battery cable, connect it to the battery according to the instructions provided and install the ISOBUS socket on the back of the tractor. Simply connect the ISOBUS tractor battery cable to the ISOBUS cable of the machine and the PÖTTINGER control terminal.

Data management



Satellite systems

Satellite systems have revolutionised the way we live and work in recent decades. From satnav in the car to precision agriculture.

A satellite system consists of a large number of satellites that receive and transmit data while circling Earth in fixed orbits. These satellites continuously transmit radio signals to Earth. When these signals are received on earth, the distance to the satellites can be calculated based on the transit time. By comparing the signals from several satellites, it is possible to work out the exact location of the receiver.

Two Earth observation satellites are part of the remote sensing system: Sentinel 2A and 2B.

These orbit the Earth and provide detailed images of the planet's surface. In agriculture, these images are used to monitor plant growth, estimate harvests, and monitor changes in land use.

The 4 most important GPS signals

- GPS (Global Positioning System) – USA
The GPS system was originally developed by the US military and is now the most widely used satellite navigation system in the world.
- GALILEO – Europe
The European navigation satellite system Galileo, which consists of 30 satellites, was developed independently of GPS and GLONASS. It offers greater accuracy in urban areas.
- GLONASS (Global Navigation Satellite System) – Russia
The Russian counterpart to GPS offers similar accuracy and is used in particular in Russia and the former Soviet states.
- BeiDou Navigation Satellite System (BDS) – China
The Chinese navigation system is becoming increasingly popular in Asia and is set to provide worldwide coverage in the future.

Digital agricultural machines



GPS accuracy

GPS accuracy requires at least four satellites for data collection per dataset. A dataset is the basis for determining position and consists of four parameters: satellite time, altitude above sea level, latitude, and longitude.

The positioning accuracy is $\pm 0.5 - 1$ metres.

This data is used for precise documentation of machine movements.

DGPS accuracy

In addition to the four parameters in the GPS accuracy datasets, the differential GPS system also uses geostationary satellites for more precise positioning and enables a horizontal accuracy of 10 – 20 cm.

This is sufficient for automatic track guidance in the field, and the section control of machines during applications such as raking and primary tillage. The GPS signal is the basis for determining the position and enables precise control of the machines.

RTK mobile accuracy

The mobile RTK system uses a combination of four satellite signals, geostationary satellites and corrects the location with RTK signals to achieve a horizontal accuracy of 2 cm (track-to-track) and a repeatability of 2 cm (year-on-year). Data is transmitted by a mobile radio modem.

Thanks to the high precision, a high level of accuracy can be achieved during crop care operations.

Data management

PÖTTINGER CONNECT



Telemetry for digital connectivity and higher output

Telemetry data is becoming more and more important in modern agriculture. To meet increasing demands in terms of performance, sustainability, and documentation, it is essential to have precise, up-to-date information on your machinery and work processes.

Telemetry systems on tractors and mounted implements enable exactly that: They acquire data in real time and automatically transmit it to centralised systems, either on the PC in the farm office, or on a cloud-based platform.

Telemetry systems make the most of your business. Telemetry data supports the calculability and comparability of each work step, and entire processes. This allows input materials to be saved while increasing the performance of your machines.

Ultimately, telemetry systems make each process more efficient. Intelligent machine connectivity ensures that work steps are optimised and precisely coordinated.

The way it works is simple and effective: Sensors record a

wide range of operating data, such as the position of the tillage or weeding tools, working hours, GPS locations, error messages, and or even seed flow rates and bale information.

This data is transmitted by mobile radio to the farmer or contractor, who can then analyse it and use it to make decisions.

The telemetry data bonus

Using telemetry systems offers numerous advantages in both grassland and arable farming.

PÖTTINGER machines in particular can precisely document and optimise grassland processes such as mowing, raking, and baling, which makes each work step more efficient because the follow-up machines can work more intelligently when they get data from the machine in front. Telemetry systems therefore enable better fleet management.

They also support precision farming strategies in arable farming, such as the demand-driven application of fertilisers. This simplifies the documentation of work

Digital agricultural machines



processes while complying in full with legal requirements. Informed decisions can be made based on real-time data about the machines and yields, supporting the objectives of the farm business.

Telemetry systems enable predictive maintenance of machines. By analysing operating data, service partners can diagnose machines even before a technical defect occurs. In the event of a malfunction, the service technician can bring the right parts with them because they can pinpoint the cause using remote diagnostics, which saves time.

The advantages of telemetry

Ultimately, telemetry data takes the guesswork out of farming and provides both economic and ecological advantages.

- Transparent operating processes
- Precise forecasts for agronomic and business success
- Reduced administrative effort thanks to standardised data

Data management

PÖTTINGER CONNECT in grassland farming



Maximum customer focus in grassland

PÖTTINGER is actively part of the big wave of machine connectivity, enriching grassland farm businesses with more knowledge about the work that they do. This means collecting exactly the machine data that the farm really needs.

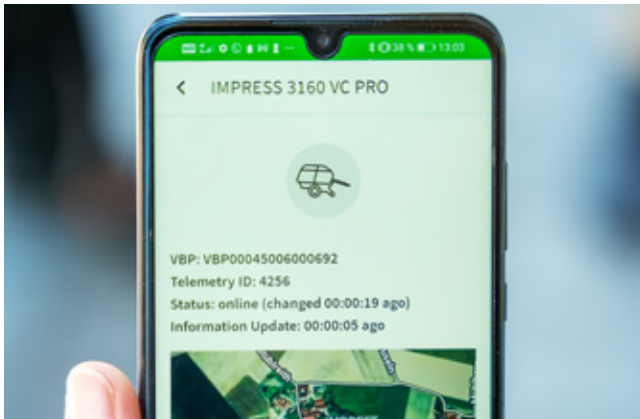
That is where PÖTTINGER CONNECT comes in, offering solution-focused processes as the answer to known problems in practice. The telemetry unit provides the farmer with real decision-making support thanks to the data it generates.

Translating data into clear visualisation.

With the visualisation in HARVEST ASSIST and the machines connected via MyPÖTTINGER, PÖTTINGER CONNECT presents the data in a way that creates clear benefits for farmers and partner companies. The data is the property of the farmer, who can access it at any time.

And what is more, PÖTTINGER enables modern, performance-boosting, yet easy machine networking that gives farmers real added value for all grassland machines, regardless of whether they are ISOBUS-compatible or not.

Digital agricultural machines



PÖTTINGER round balers

PÖTTINGER CONNECT records and transmits all relevant process data from the round baler, including operating times, area covered, number of bales, weight, moisture, location, travelling times and waiting times. This automatically creates transparent documentation of the work done by the baler.

The HARVEST ASSIST app from PÖTTINGER visualises the data to provide a complete overview of the work carried out for all members of the HARVEST ASSIST harvesting group.



PÖTTINGER NOVACAT V 10000 mower

PÖTTINGER CONNECT records and transmits process data such as operating times, area covered, travelling speed and location, and shows how the forage has been deposited. This creates comprehensive documentation of the work done by the mower, which can be used both in farm management and for contractors and verification purposes.

The traffic lanes in the field and areas that have been worked are recorded using GPS tracking. Follow-up machines, such as rakes and balers, can use this information to carry out their work more efficiently.

PÖTTINGER rakes and loader wagons

Like the mowers and round balers, PÖTTINGER JUMBO loader wagons and TOP 1403 C rakes, for example, are also equipped with PÖTTINGER CONNECT.

Data management

PÖTTINGER CONNECT in arable farming



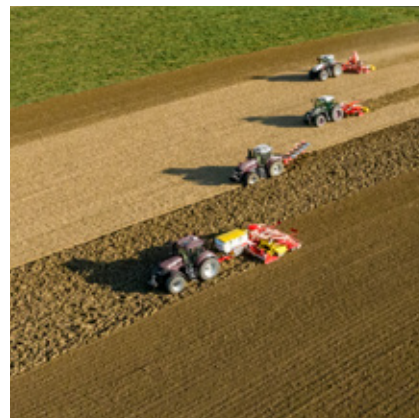
Digital agricultural machines



Reliable in arable farming

PÖTTINGER CONNECT supports arable farming. Data is sent to a certified farm management system by the telemetry unit via agrirouter, so it can be used for further processing.

PÖTTINGER CONNECT enables an end-to-end, user-friendly and simple telemetry solution. This allows farmers to focus fully on their actual work again.



PÖTTINGER seed drills

PÖTTINGER CONNECT handles the ISOBUS task controller functions. This means that jobs can be transferred from the farm management system to the machine, started, and paused when required. At the same time, each job is documented automatically.

Section control (TC-SC) enables automatic part-width section control or row exclusion for tramlines. The seed drill switches off and on again automatically at the headland, and when driving over areas that have already been planted. This reduces overlaps, saves seed and increases accuracy.

Variable rate control (TC-GEO) controls the seed flow rate on a site-specific basis. The seed rate is automatically adjusted to match soil conditions and yield zones based on application maps.

In addition, PÖTTINGER CONNECT enables GPS-assisted recording and reporting. This includes the recording of traffic lanes in the field, operating times, areas worked and the exact location of the different seed rates.

More arable farming machines

More arable machines can also be equipped with PÖTTINGER CONNECT. This provides valuable information such as operating speed, working depth, and sowing of cover crops and green manure.

Data management

agrirouter



Digital agricultural machines

Manufacturer-independent, wireless data exchange

The agrirouter was developed by DKE-Data GmbH & Co. KG, working together closely with leading agricultural machinery manufacturers like PÖTTINGER. The objective was to create a platform for exchanging data between machines and farm management software. agrirouter is the result. agrirouter is a web-based, manufacturer-independent data platform that enables the exchange of data between machines, farm software and digital apps provided by different manufacturers.



The advantages of the agrirouter

Using the agrirouter offers many advantages for farm businesses. These include manufacturer-independent data exchange, greater efficiency in farm management, process optimisation, and easy-to-use digital documentation.

Data security and transparency

agrirouter displays data to support decision making. Farmers and contractors can choose which data is forwarded to each application.

We are ready for agrirouter

PÖTTINGER provides the capability of transmitting ISOBUS-compliant machine data to the agrirouter.

In addition to seed drills such as VITASEM, AEROCSEM and TERRASEM, the machines covered also include rotor loader wagons, round balers, rakes and mowers. Compatible machines are always recognisable by the 'ready for agrirouter' sticker.

PÖTTINGER customers can use the agrirouter to send job data from field indexing software or application maps, directly to their CCI 1200 terminal or to PÖTTINGER CONNECT, and save and display data relating to silage bales, for example, on their farm management system.



This QR code takes you directly to the applications.

Software



Making your working day easier

Machines are becoming more and more precise and can perform several tasks simultaneously. The range of software solutions available is increasing.

The apps developed by PÖTTINGER are designed to make your everyday work easier. They have each been developed by farmers for farmers, and guarantee intuitive handling for every user. At the end of the day, you can focus on the important things and also save a lot of time.

Always on hand

A big advantage of apps and mobile software solutions is their constant availability. With HARVEST ASSIST, all members of the harvesting team can be seen and are reachable by all the other members of the group at all times, even if something unforeseen happens.

Time savings

That saves time! This is a scenario we all know well: whether it is configuring a new machine or adapting existing machines to new conditions. HAYTOOL ASSIST and ROW CROP ASSIST can be used to configure and check FLEXCARE row crop cultivators and tedders.

Digital agricultural machines



Intuitive operation

During development, it was important to PÖTTINGER that all applications are intuitive and easy to use. Clear user interfaces eliminate long searches and complicated settings. This means you can focus on what is important.

Solutions from the real world for the real world.

Problems with the configuration? Something is not working right? The result is different from what was expected? No problem! All mobile software solutions are backed by a team of sales and support experts who are on hand to help with any questions or problems and are guaranteed to have a solution ready.

Software

TRAMLINE ASSIST



For a perfect match

To set up an optimal tramline system, you need to coordinate your machinery. TRAMLINE ASSIST helps you to do this. When choosing your seed drill, parameters such as the working width of your crop care machines, as well as tractor track width and tyre widths are critical for optimising tramlining. TRAMLINE ASSIST determines the tramline rhythm for you, the position of the traffic lanes in the field, and the number of rows that need to be switched off.

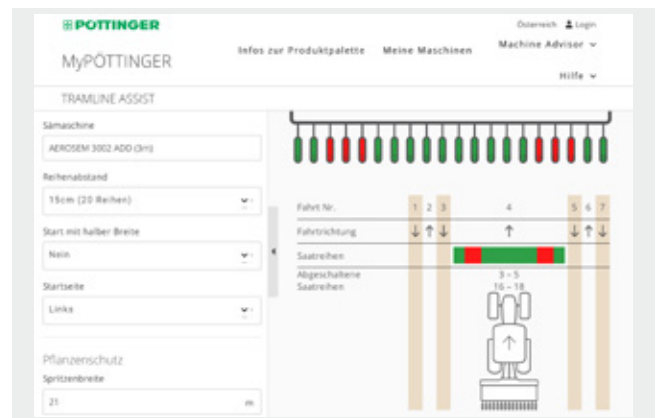
Selecting machine parameters

You can select your required or existing parameters in the seed drill menu.

- Seed drill: Choose from all current mechanical and pneumatic seed drills available
- Row spacing along with number of rows
- Choose between the first row of plants with half working width, or start with full working width
- Choose which side of the crop sprayer starts first, left or right

The tramline rhythm is displayed according to your settings and the coulter pipes that need to be switched off for the tramline.

Digital agricultural machines



Select tramlines

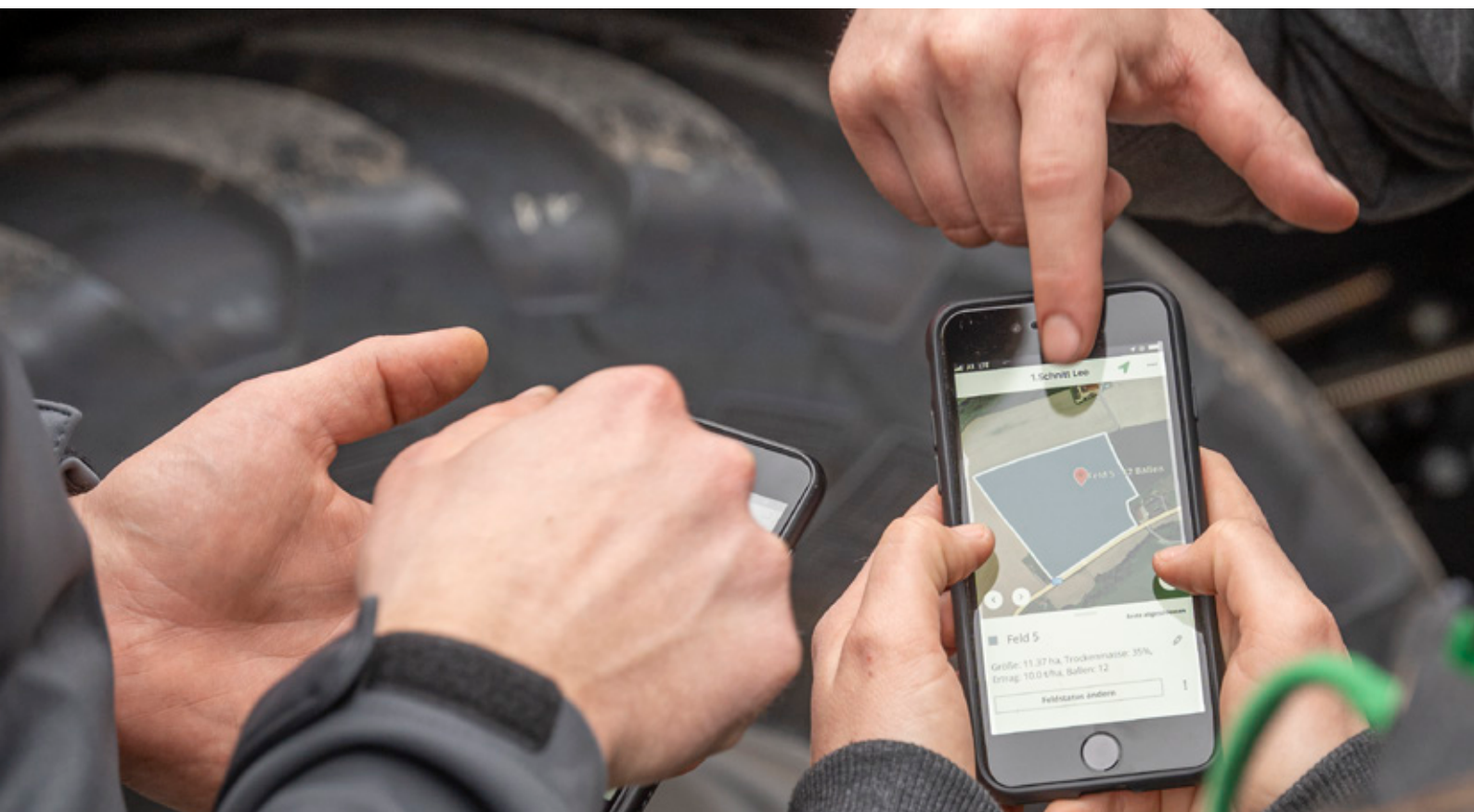
Here you select the parameters for your crop protection machinery.

For example, these include the working width of the sprayer and fertiliser spreader, along with the track width and tyre width of the crop care tractor. You can also define a safety distance of 0 to 5 cm between the tyre and the closest seed rows.

This ensures that the machine is factory-configured with the right track width and tyres.

Software

HARVEST ASSIST



Smart management for the best quality forage.

Get higher harvesting performance, a reliable planning tool, and a simplified harvesting process with the free HARVEST ASSIST app:

The app makes it easier to organise the harvesting chain and optimise the deployment of mowers, tedders, rakes, mergers, loader wagons, and balers.

The app also provides a status overview of each field and the current location of each machine. To organise the harvest as efficiently as possible, the app assigns the fields to be processed to each driver.

The app also displays live data from machines equipped with the PÖTTINGER CONNECT telemetry unit. Using the yield forecast function (app Version 4.1 onwards), the app calculates the harvest volume and the required storage space before the harvest even starts.

The result is mass flow-dependent deployment to each field for dynamic harvesting that eliminates waiting times at the clamp.

The compaction vehicle at the clamp can then neatly distribute and compact each load of crop as it is individually delivered to ensure the best forage is produced.

Digital agricultural machines



Your permanent assistant

Use your own smartphone or tablet to run the app; no additional hardware is required.

You will quickly find your way around, because the app is designed so intuitively.

For easy documentation, the each load is counted based on GPS data to determine the yield.

Easy to operate

"The top three advantages are definitely the ease of use, i.e. creating and adding groups and fields.

The second advantage is that everyone can see where everyone else is. For example, the forage harvester driver knows when the next trailer will arrive and the compaction machine driver at the clamp knows how much time I still have and the trailer driver also knows where the forage harvester is at the moment. So navigation is definitely brilliant.

And simply that you can see the status of each field: is it mown, raked, ready for harvesting, or already harvested?"

Johannes Alkofer
Owner of the Blaslhof farm business
Kelheim | Germany

Software

HARVEST ASSIST



5 tabs to keep tabs on the whole year

The straightforward layout of the HARVEST ASSIST app is simply brilliant. Because the overview is divided into five categories, each field, clamp, driver, and machine can be perfectly coordinated and matched.

Group

The tab provides a clear overview of drivers, machines and the clamp. New members of the group are simply invited to join by sending an invitation link by Messenger app. HARVEST ASSIST makes the telemetry data from connected machines available to the whole group in real time while assigning tasks to specific members of the group.

The location of the clamp can be easily selected on the map. The location can be changed at any time.

Fields

Fields are clearly displayed in the HARVEST ASSIST app and can be easily added and edited.

Simply click on the map to automatically create the field boundary, based on satellite data. This completely eliminates the tedious task of drawing field boundaries. Manual adjustments can be made at any time. Field boundaries can also be integrated into the app as a file.

In addition, yield forecasts (Version 4.1 onwards) can be created by adding weather data. This means you get an indication of both yield and moisture content in advance.

Planning

“Who does what” in the harvest team is coordinated in HARVEST ASSIST planning mode. The work and the fields are assigned to the drivers either automatically or manually.

There are various strategies for deploying machines to each field. They can be sequenced according to the forecast yield in combination with the distance by road, so that the mower follows a circular route and can still start at the

Digital agricultural machines



location with the highest yield.

As a result, despite taking biomass differences into account, the machine has the shortest distance from field to field. The tedder always follows the mower.

For the rake, the fields are sequenced according to mass flow so that it carries out its work ahead of the loader wagon. This ensures that there is a continuous flow of crop being delivered to the clamp.

Route

HARVEST ASSIST makes it easy for drivers to navigate to the fields and tracks them in real time to ensure an efficient sequence. Because data is shared, each driver can see what the rest of the team is doing, and the following machines can easily keep track of the machine in front. Another advantage of data sharing is that swath and bale information is displayed in real time to give the following machine the information it needs to really increase output.

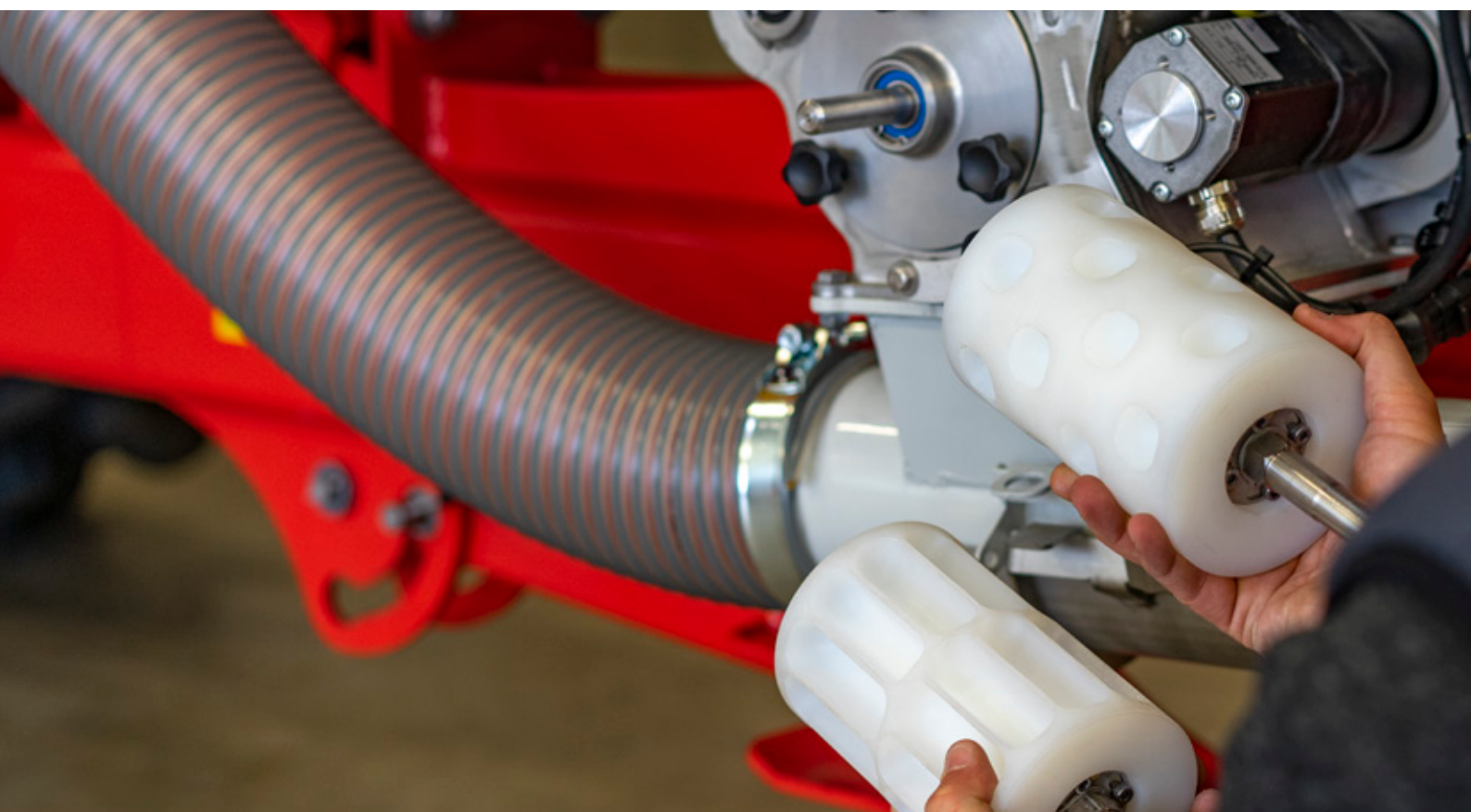
Analysis

The analysis tool supports multiple users in their daily work: contractor, machine rental company, and farmer.

For mandatory documentation, process monitoring, and invoicing. With HARVEST ASSIST, driving time and yield data can be easily documented and shared.

Software

METERING WHEEL ASSIST



Choosing the best metering wheel

PÖTTINGER has developed METERING WHEEL ASSIST to make it easier to choose the right metering wheel. It is the perfect assistant for pneumatic seed drills with electric metering. For seed drills with mechanical metering, METERING WHEEL ASSIST can be used as a guide.

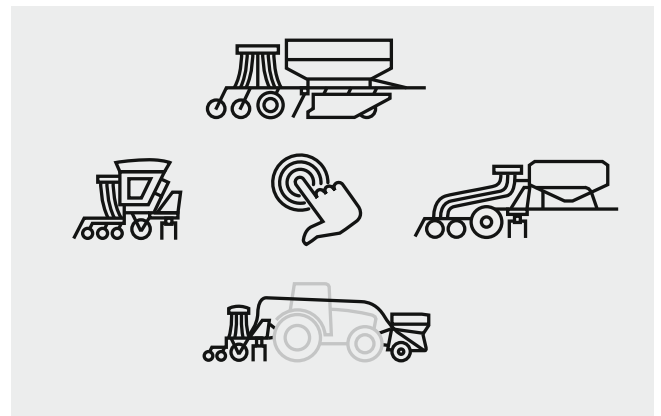
From experience we know that sowing is influenced by many different factors (e.g.: different site conditions, type of seed material, basic machine settings, and many more), which is why in practice, the efficiency of metering wheels can deviate from the theoretical best choice. Our latest feedback from the field is always used to keep the assistant up to date.

Machine selection

In the first step you can choose your machine. All machine models are shown here.

- AEROSEM M pneumatic seed drills
- AEROSEM F/FV pneumatic front hopper seed drills
- AEROSEM VT trailed pneumatic seed drill combinations
- TERRASEM universal seed drill combinations
- AMICO F hopper

Digital agricultural machines



Choose metering wheel

In the next step you can choose your drilling speed. Next, select the seed type or fertiliser. Now set the required application rate.

The suggested metering wheel is then displayed. A distinction is made between three categories:

- Optimum metering wheel (green)
- Possible metering wheel (orange)
- Unsuitable metering wheel (grey)

If several optimum metering wheels are displayed for the same seed type, it is generally the smaller metering wheel that needs to be used.



MyPÖTTINGER

This QR code takes you directly to the website.



Benefit from numerous advantages

MyPÖTTINGER is our customer portal that provides you with key information about your PÖTTINGER machines.



My machines

Add your PÖTTINGER machinery to “My machines” and assign a name. You will receive valuable information such as: useful tips on your machine, operating instructions, spare parts lists, maintenance information, as well as all the technical details and documentation.

Info on the product range

MyPÖTTINGER provides you with machine-specific information for all machines from year of build 1997 onwards.

Scan the QR code on the machine's data plate with a smartphone or tablet or go to www.mypottinger.com and enter the machine number from the comfort of your own home. You will immediately receive all the information on your machine such as the instruction manual, equipment options, brochures, photos and videos.

If you want it to last,
you want the
original.



This QR code takes you directly
to the website.

 **PÖTTINGER**
Original Parts

ORIGINAL PARTS



Regardless of whether you've got a new machine or a classic, our spare parts logistics centre stocks over 55,000 parts to give our machines an extended service life. Thanks to the many local warehouses in 13 countries and a large network of dealerships, original parts are available in over 60 countries.



Finding the right parts is easy

Our digital services are available free of charge and have largely replaced paper-based spare parts lists:

- www.mypoettinger.com provides free access to machine documentation on your smartphone and tablet.
- [agoparts](#) offers an intuitive search function to pinpoint the correct parts. This eliminates the risk of placing the wrong order.



No worries with the original

Too short, wrong hole pattern, wears out quickly? You don't get these problems with an original part. And there are many more advantages:

- Immediate and long-term spare parts availability
- Maximum service life
- Perfect fit
- Attractive and competitive prices



More success with PÖTTINGER

- Your reliable partner, as a family-owned company since 1871
- Specialist for arable and grassland
- Future-safe innovation for outstanding working results
- Roots in Austria – at home throughout the world

Intelligent farming with PÖTTINGER

- Smart software to make work easier
- Intelligent terminals for every requirement
- Intuitive precision farming solutions for more success
- Assistance systems for smart configurations

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