REICHHARDT®

electronic • innovations

Versatile automatic steering system

PSR ISO

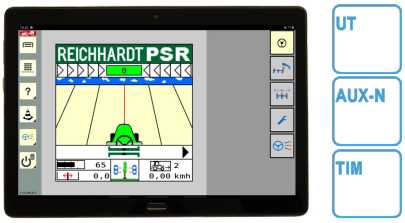
Unique
Expandable
ISO compatible

PSR ISO: universal and perfectly integratable

PSR ISO by Reichhardt differs from other automatic steering systems in that it can uniquely use satellite signals and sensor technology, such as ultrasound or row sensors, to steer the vehicle or implement. It can be used at any time regardless of previous operations.

The system is universally designed and fits almost any vehicle. The integration of third-party components, such as GNSS receivers, sometimes saves expensive new purchases. Since older vehicles can also be equipped, they can also be integrated into the requirements of Agriculture 4.0.

PSR ISO can be operated via any ISO-VT. Existing ISOBUS terminals can also be used or the steering system can be integrated into the existing machine terminal.



UT

AUX-N

TIM

PSR SKY GNSS-guidance

Wherever applications are required for which there are no other markers in the field, tracking via satellite navigation signals (GNSS) is ideal. If the very first operation is carried out with the aid of highly accurate RTK correction data, it is often possible to carry out all subsequent work with it.

Many options:

- Usable with existing GNSS receivers and ISO VT
- Can be used with sensors that fit the application at any time
- TIM capable

With the new receiver generation, all civil signals such as GPS, GLONASS, Galileo, BeiDou and QZSS, as well as the new frequency bands L 2 C and L5 can be used. The RGS 200 by Reichhardt is a GNSS receiver for a track to track accuracy of +/- 30 cm. In contrast, the RTK receiver RGS 700 scores with a repeatable accuracy of +/- 2 cm.

RGS 200

RGS 700

The working machine can be controlled using a retrofitted hydraulic valve or a replaceable steering wheel motor, such as the RDU 3 as well as via a manufacturer dependent prefitting of the tractor or the new AEF certified TIM interface.

RDU3

Highly accurate RTK correction data is provided by RTK CLUE a service offered by Reichhardt.
(www.rtk-clue.net)

www.rtk-clue.net

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Advantages due to sensors - Unique in a single system

Wherever row crops have been planted manually or automatically but without RTK, plant development has changed the track or RTK accuracy is not available, Reichhardt's sensor technology is a real advantage. This is often the case with harvesting and maintenance operations in permanent crops, corn and root crops.

Since no track data recording and management is necessary, quick training of the drivers is guaranteed. Even after a long winter break, the system is quickly understood, and even temporary drivers like to use it.

PSR TAC
Steering with flexible row sensor

PSR TAC has been proving its advantages all over the world for many years in thousands of applications on corn pickers and forage harvesters, especially in storage corn.

The low-wear feelers made of high-quality plastic gently grip the plants and steer the vehicle through the rows with maximum precision, regardless of blockage and weather conditions.

Additional applications in viticulture and on field sprayers are new and have been tested. Depending on the application, the sensor is used with a single or double feeler.

PSR TAC

PSR SONIC 200
Steering with ultrasound

Using the bat principle, ultrasonic sensors detect rows of plants, tramlines, crop edges or dams and guide the vehicle along them with maximum precision.

They are also ideal for use in vineyards and orchards. Since the working tools can be brought very close to the crop, guidance by sensors is also very popular in organic farming.

The new sensors score with deflector plates and even better crop recognition.

PSR SONIC 200

Sensor +

The combination of sensor technology and GNSS creates further plus points for self-propelled vehicles: Higher speed results in greater area performance in a shorter period of time.

PSR ISO TOP

Combined with a T800 or T1200, the functionality of PSR ISO can be extended by SectionControl, VariableRate, mapping and track data management.

PSR SLIDE
Automatic implement steering

The PSR SLIDE by Reichhardt optimizes steering performance especially in vegetable cultivation, on slopes or under other difficult conditions.

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PSR ISO
The Allrounder.

PSR steering systems by Reichhardt for vehicles and implements were among the first retrofit solutions on the market. Regardless of the vehicle or equipment brand, they scored points with their universal design. PSR's unique position is due to the use of GNSS signals and sensors, such as ultrasonic sensors and flexible row sensors, in a single system. The integration of GNSS receivers from other manufacturers and ISO VT of all brands also allows cost-effective use.

PSR has proven itself

PSR ISO is the ISOBUS-compatible automatic steering system that farmers have relied on for decades. It forms the basis for precision farming and thus for Agriculture 4.0. In arable farming as well as in special crops, such as viticulture and fruit growing, but also in strawberry, asparagus and vegetable cultivation in general, it has proven itself and taken its place in the agricultural business. The new sensor PSR SONIC 200 is not only indispensable in organic farming.

The flexible row sensor PSR TAC is already delivered ex works worldwide by renowned manufacturers on maize harvesters. The GNSS receivers RGS 200 and 700 enable track accuracies of up to +/- 2 cm on almost any agricultural machine.

Intelligent retrofits often avoid expensive investments in new machines. ISOBUS expertise and retrofit solutions, RTK CLUE (www.rtk-clue.net), PSR SLIDE automatic implement steering and other innovations in digital farming, such as SMART COMMAND, combined with reliable personal customer service, make Reichhardt the preferred Smart Farming partner.

The advantages

- Universal and manufacturer-independent application
- GNSS guidance and sensors in a single system
- Use of existing terminals and receivers reduces acquisition costs
- Extensive ISOBUS retrofit solutions are available

1 - PSR iBox

2 - Vehicle control

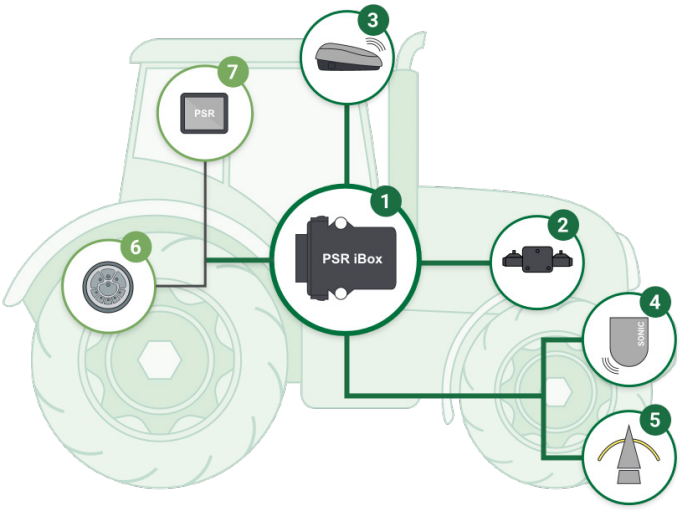
3 - PSR SKY

4 - PSR SONIC 200

5 - PSR TAC

6 - ISOBUS retrofits

7 - ISO VT



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