

*Work smarter,  
not harder*

**HOMBURG**  
holland

# SmartSOLUTIONS<sup>®</sup>

SmartSTEER • SmartLEVEL • SmartSTOPnGO • SmartPLOUGH • SmartCONTROL • SmartBULB



# SmartSTEER

RTK IMPLEMENT STEERING

*“Added precision and headland automation to my planter”*

Discover the premium and most advanced implement steering on the market: SmartSTEER. It will add precision, extra capacity and comfort to your implements too!

## UNIVERSAL

SmartSTEER is the most universal and accurate RTK implement steering system on the market and is sold and used worldwide. SmartSTEER integrates in your existing GPS system and will steer any implement behind the tractor along the same curve/track/AB-line as chosen in your display. SmartSTEER makes your work a lot easier: press the start button and be surprised!

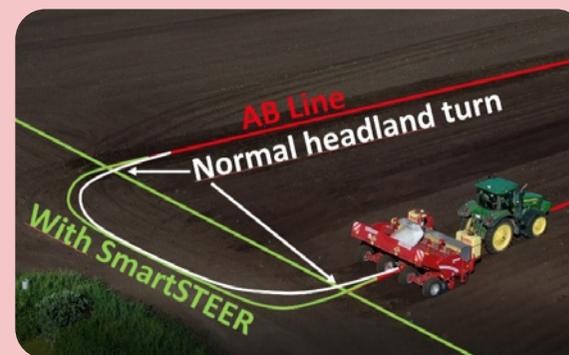
## BENEFITS OF SmartSTEER

- ✓ Adds precision plus saves time by headland automation.
- ✓ Full Automatic Pause, Center or Follow-tractor mode on headland assists the operator and saves time, soil and fuel by eliminating reversing.
- ✓ Reverse options for wheel steering (AB line & headland).
- ✓ No additional cab clutter due to ISOBUS VT interface.
- ✓ Easy (and almost) Plug & Play Installation.
- ✓ Combines with almost any RTK receiver (incl. Homburg SmartRTK).
- ✓ Suits all implements behind tractor for wheel, hitch, drawbar, sideshift and coulter steering.
- ✓ Can use existing NTRIP (sharing) for implement receiver.

## ADDITIONAL INFO/SPECIFICATIONS:

- No display unlocks needed (just ISOBUS VT/UT).
- Speed range from 500 m/h and up.
- Kit consists of module & harness(es).
- Options are NTRIP sharing, SmartRTK receiver and angle sensor.
- Supports PWM hydraulic valves.
- Supports wheel angle sensors with 0-5V output.
- Designated Plug & Play kits for Grimme and some other implements.

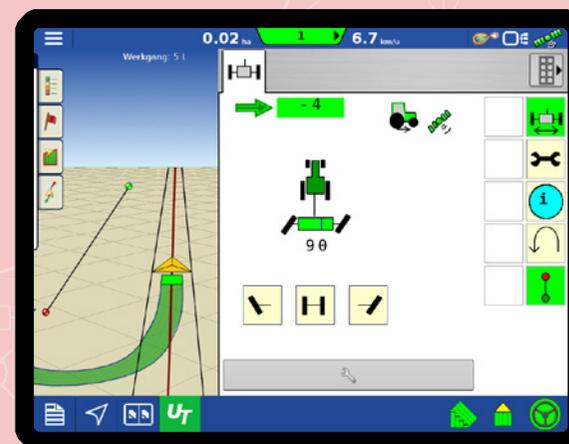
Discover more about SmartSTEER



▲ Headland automation with follow-tractor mode



▲ SmartSTEER on Grimme



▲ Easy and intuitive user interface via ISOBUS VT

## AVAILABLE FOR\*

- AGCO ✓
- Ag Leader ✓
- CNH ✓
- Deutz ✓
- John Deere ✓
- Raven ✓
- Trimble ✓
- Topcon ✓

\* support for multiple brands (unlocks) available



*“Precision farming for soil leveling with RTK accuracy”*

# SmartLEVEL

3D RTK LEVELING

This is what you need for your scraper: SmartLEVEL uses your existing receiver and display to move soil and works all over the world. The functionality is comparable with laser leveling, but a grade/slope can be in up to 3 directions to create a (tilted) double roof model shape.

## UNIVERSAL

SmartLEVEL is compatible with almost every ISOBUS display and NMEA RTK receiver. SmartLEVEL is an easy and cost efficient solution using your GPS components to upgrade existing equipment.

## BENEFITS OF SmartLEVEL

- ✓ Easy to install and use 3D levelling.
- ✓ No limits in elevation or range like with laser.
- ✓ Align button to compensate for eventual (vertical) RTK drift.
- ✓ Can be used with radio and NTRIP RTK.
- ✓ Offset & toggle buttons to shift scraper up or down with adjustable offsets.
- ✓ Can use either Homburg or (proportional) ISOBUS joysticks.
- ✓ For Ag Leader displays only: auto updating cut and fill maps showing where to move soil from and to.
- ✓ Limited support for prescriptions.
- ✓ Better yields and accessibility of field by preventing wet spots.

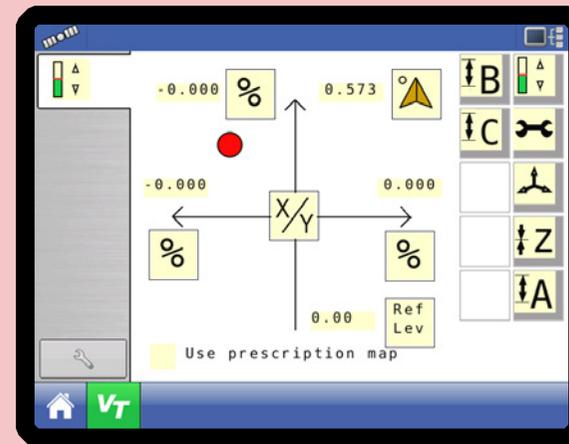
## ADDITIONAL INFO

SmartLEVEL supports PWM hydraulic valves and can automatically configure Novatel, Trimble or Topcon receivers to work with SmartLEVEL. SmartLEVEL does not need an unlock in the display.

## THREE SIMPLE OPERATING MODES

- Manual.
- Semi-automatic: Manual control while limiting downwards movement by actual set profile.
- Fully automatic for finalizing.

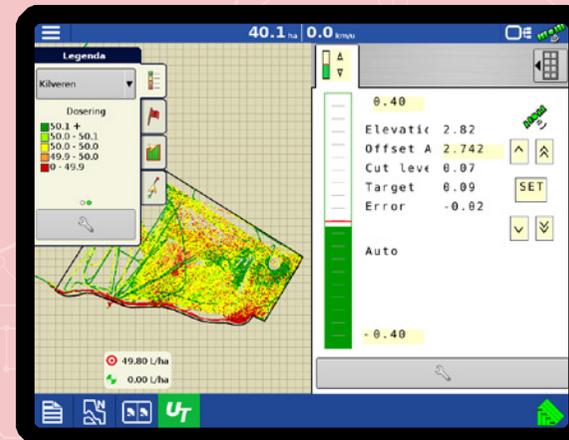
Discover more about SmartLEVEL



▲ Setup page for slope settings



▲ Proportional joystick



▲ Cut & Fill map and Run page with vertical lightbar

## COMPATIBLE WITH

- AGCO ✓
- Ag Leader ✓
- Claas ✓
- CNH ✓
- Deutz ✓
- John Deere ✓
- Kubota ✓
- Raven ✓
- Trimble ✓
- Topcon ✓

*"Brought gridplanting to my existing ISOBUS display"*

# SmartSTOPnGO

ISOBUS GRID/RASTER MODULE

SmartSTOPnGO is a GPS based grid planting system using the ISOBUS display of an RTK guidance system. SmartSTOPnGO provides 12V output signals at the set distance to engage i.e. a buzzer, lamp, valves etc. Depending on the harness chosen, it connects either via ISOBUS socket or in the cab via CPC connector.

## USING SmartSTOPnGO

Set heading and distance between stops. SmartSTOPnGO will show next stop number and the actual distance to it. At every stop SmartSTOPnGO gives 12V signal(s). Offsets and duration of signals can be easily set. When SmartSTOPnGO is used to stop the tractor driving, it can either be started again by pressing on the display or by an external resume signal.

## BENEFITS OF SmartSTOPnGO

- ✓ Easy to install and use.
- ✓ No display unlocks needed (just ISOBUS VT/UT).
- ✓ Adjustable duration of both the STOP and GO pulses.
- ✓ Adjustable offsets for both directions of driving or to create diamond pattern.
- ✓ Comes prewired for an external Resume/GO signal.
- ✓ Fast Forward button to pause signalling while i.e. on headland.
- ✓ Optional 2nd channel for i.e. adding fertilizer or put i.e. a pole after every 5 trees.
- ✓ Counts the stops in the actual pass.
- ✓ Updates/upgrades with additional features foreseen.
- ✓ Equal and accurate spacing allows for i.e. easier weeding and more consistent crop.

## HARDWARE

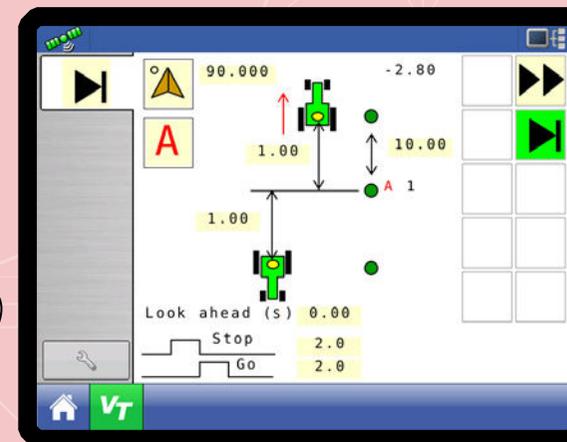
The SmartSTOPnGO bundle consists of a module and harness which connects to the implement/application. The compact and waterproof module can be placed on the tractor or implement as desired. External resume input is also prewired.



▲ SmartSTOPnGO module



▲ SmartSTOPnGO in use



▲ SmartSTOPnGO user interface

Discover more about SmartSTOPnGO



## COMPATIBLE WITH

- AGCO ✓
- Ag Leader ✓
- CNH ✓
- Deutz ✓
- John Deere ✓
- Raven ✓
- Trimble ✓
- Topcon ✓



“Straight ploughing without stress”

# SmartPLOWGH

RTK PLOWGING SYSTEM

This is what you need for better yields and planting! By using SmartPLOWGH on your width adjustable/vario plow, you will get a more even field and higher capacity. Additionally, you'll get even more straight planting since planters tend to follow the soil as how it was prepared. SmartPLOWGH as InFurrow is a proven solution and successfully used for over 10 years, the new OnLand version is being released for export.

## USING SmartPLOWGH

SmartPLOWGH is easy to use and does, like an autosteer system, the job for you by adjusting the working width with RTK accuracy.

## BENEFITS OF SmartPLOWGH

- ✓ Easy to install and use by day and night, also by less skilled drivers.
- ✓ Connects via tractor ISOBUS socket and can use OC or LS hydraulics.
- ✓ Usable for both curved and straight AB lines.
- ✓ Can finish with a full pass at the end of the field.
- ✓ Automatically stops adjusting width when lifted on headland.
- ✓ The normal InFurrow version of SmartPLOWGH can transit from one to the other AB line without help, and thus plough one year from curve to straight and next year from straight to curve.
- ✓ SmartPLOWGH OnLand, if first passes do not match the AB line, requires the operator to drive manually along those first passes or boundary and will straighten them according to the curve or AB line chosen.or AB line chosen.
- ✓ For InFurrow with Ag Leader displays also fan patterns are possible.
- ✓ Dedicated kits for i.e. Lemken ISOBUS ploughs available.

## HARDWARE

- InFurrow: Module, Harness, Angle & Tilt sensor, valve.
- OnLand version has an upgraded ECU and uses a double RTK receiver (no complicated tilting mechanism) and NTRIP harnessing.

Discover more about SmartPLOWGH



▲ Straight furrow



▲ SmartPLOWGH OnLand with double receiver



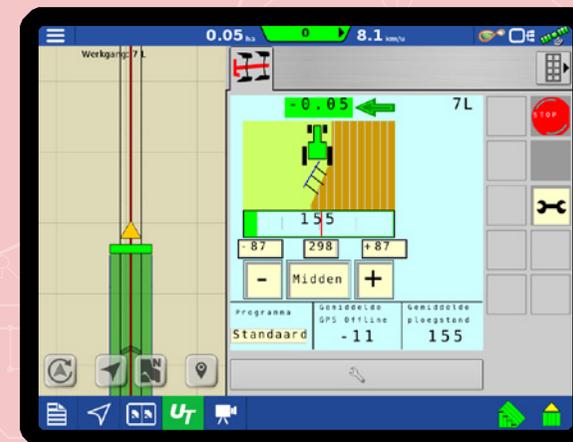
Fan mode ▲



Advanced mode ▲



Straight & Curved ploughing ▲



▲ SmartPLOWGH user interface

## AVAILABLE FOR\*

- AGCO ✓
- Ag Leader ✓✓
- CNH ✓✓
- Deutz ✓✓
- John Deere ✓✓
- Trimble ✓✓
- Topcon ✓✓

\* support for multiple brands (unlocks) available



*“Bridges between ISOBUS display and my existing implement”*

# SmartCONTROL

SECTION & RATE CONTROL

This SmartSOLUTION could be the key to control your implement with section control as well. The SmartCONTROL module converts ISOBUS to CAN or serial control (sections and rate). Alternatively it can directly control sections of any implement using 12V output signals. SmartCONTROL can be used for both OEM applications and to retrofit onto supported equipment.

## UNIVERSAL

SmartCONTROL translates ISOBUS Task Control commands (section control) into 12V outputs or 3rd party CAN and Serial protocols.

For the CAN/serial protocols also target and as-applied rates, are communicated between display and implement controller. With SmartCONTROL you can control your non-ISOBUS implement (i.e. sprayer spreader, planter or hoe) by ISOBUS.

## BENEFITS OF SmartCONTROL

- ✓ Easy to install and use (no operator interaction after installation).
- ✓ Predefined harnesses for several applications.
- ✓ Can either connect to ISOBUS socket or in cab CPC connector.
- ✓ Solid, reliable, proven with hundreds of modules in the field.
- ✓ Allows using prescriptions or crop sensors (i.e. Ag Leader OptRx) on your existing ISOBUS display and will also log the as applied rate when using CAN/serial connection.

## COMPATIBILITY & PROTOCOLS

Standard protocols are provided for:

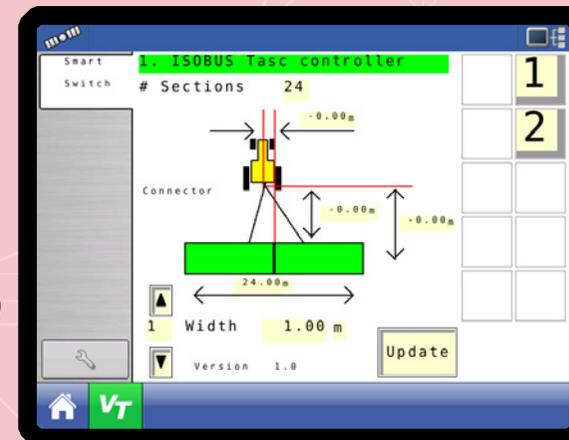
- CAN: Agrifac (Condor 2014+ and Milan).
- Serial: Rauch/Kuhn Quantron A & E (GPS Control), HC5500 with Jobcom. Serial: Hardi.
- Direct 12V: Up to 4 sections. with SmartCONTROL only.
- USC 12V: Up to 48 sections using can USC I/O modules (8 sections per module).



▲ SmartCONTROL & USC modules



▲ Compatible with Quantron A & E, HC500



▲ SmartCONTROL settings

Discover more about SmartCONTROL



## COMPATIBLE WITH

- AGCO ✓
- Ag Leader ✓
- Claas ✓
- CNH ✓
- Deutz ✓
- John Deere ✓
- Kubota ✓
- Raven ✓
- Trimble ✓
- Topcon ✓

*“No more guesswork,  
facts count!”*

# SmartBULB

LOGGING AND SECTION CONTROL

Plant smarter by using SmartBULB, offering on-off section control and/or registration of counted numbers. SmartBULB requires a display which has ISOBUS & Task Controller (TC) ability for planting and rate control. For rate logging, SmartBULB is compatible with Cremer Tel-O-Scope counters.

## UNIVERSAL

SmartBULB easily connects to the tractor, using the ISOBUS socket and integrates into the GPS ISOBUS display used. The harness is prewired to connect to the Cremer Tel-O-Scope CAN connector to log and optionally control the planting rate.

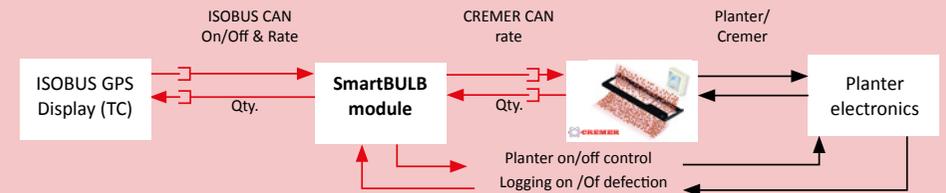
The standard harness comes with a relay output to turn the planter off on the headland and has an implement switch to stop logging when planter is off or lifted.

SmartBULB can also be combined with SmartSTEER implement steering to make the planting itself more accurate.

## BENEFITS OF SmartBULB

- ✓ Displays and logs the rate/counted number of bulbs in the tractors ISOBUS GPS display.
- ✓ Logging and storing planting data in ISOBUS GPS displays allows export of planted numbers and totals to management software and/or review in your GPS display.
- ✓ Use the auto section control of your GPS display to automatically turn the planter on and off on headlands.
- ✓ For planters which support rate control, a target rate can be set (or prescription map be used) in the tractor display.
- ✓ Easy, almost Plug & Play installation for any (bulb) planter.

Discover more  
about SmartBULB



▲ Schematic of SmartBULB



◀ Planting with SmartBULB & SmartSTEER



▲ Mapping of quantities

## COMPATIBLE WITH

- AGCO ✓
- Ag Leader ✓
- Claas ✓
- CNH ✓
- Deutz ✓
- John Deere ✓
- Kubota ✓
- Raven ✓
- Trimble ✓
- Topcon ✓

# HOMBURG HOLLAND

Our world population is increasing at a great rate and it is a huge challenge for agriculture to continue to provide it with healthy food! Homburg Holland is eager to do its bit and wants to continue to grow as a leading player in the field of sustainable precision agriculture.

The employees of Homburg are characterized by their specialist knowledge. The principles that drive our service to the crop farming and horticulture sectors are expressed through our premium quality high-tech machines for seedbed preparation, sowing, planting and the healthy growth of crops.

We interpret our slogan 'Exactly what is needed' quite literally. Always at the forefront, and with its feet firmly on the ground, Homburg keeps abreast of the developments in crop farming and horticulture. Its aim is to enable its customers to achieve the highest possible yield per hectare, efficiently and sustainably, through precision agriculture.

By measuring, recording, analysing and our knowledge we ensure that crop farmers can achieve optimal profits. That is what we stand for. We import the products and technology of Ag Leader Technology and produce and export our SmartSOLUTIONS.

'Profit through knowledge': the sharing of knowledge leads to the best results. This is the core of what Homburg does. We love to share our experience and expertise to help our customers optimize their yields.

Efficient and sustainable agriculture starts with optimal soil conditions. We therefore designed the Homburg DrainCleaner and produce and export this useful machine worldwide.

Our support for non-return tillage and high-speed sowing and planting techniques comes in the form of the top quality Swedish Väderstad's tillage and seed drills, for which we are the importers and agents.

We also demonstrate our commitment to sustainable, resource-saving and no-drift crop protection by importing Garford hoeing technology and Hardi Twin Force sprayers. With the fertilizers -and salt spreaders of Bogballe we deliver the right dosis to let your crops grow.

*Get in contact  
with a dealer or one  
of our specialists*



# HOMBURG

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