

SmartSTEER[®] RTK implement steering

SmartSTEER is an RTK implement steering kit for Ag Leader (ISOBUS) GPS displays. SmartSTEER runs on the ISOBUS VT screen using an RTK antenna for steering the implement:

- SmartSTEER will steer the implement actively towards chosen guidance track of the tractor (curves supported)
- Functionalities:
 - Follow actual autosteer track of tractor
 - Unique option with pulled implement is to follow the turn of tractor on the headland. This assures max. accuracy from the first meters and boosts productivity by mostly eliminating the need to reverse the planter to get it straight behind the tractor
 - Option is to steer the (pulled) implement straight behind tractor when reversing
 - Mounted implements can/will be centered when implement is lifted (3-point hitch)
 - Manual steering via the display is possible for i.e. maneuvering
- Compatible with rear mounted implements with wheel-, coultter-, drawbar- and sideshift steering
- Speeds from 500m/h to 12km/h (higher speeds with advanced settings possible)
- System demands autosteer on tractor and RTK antenna on both tractor and implement
- Hardware exists of SmartSTEER controller and harness
- Control via an easy to use ISOBUS VT user interface
- Controller is equipped with ISOBUS IBBC implement connector
- System is foreseen to implement additional foreign languages



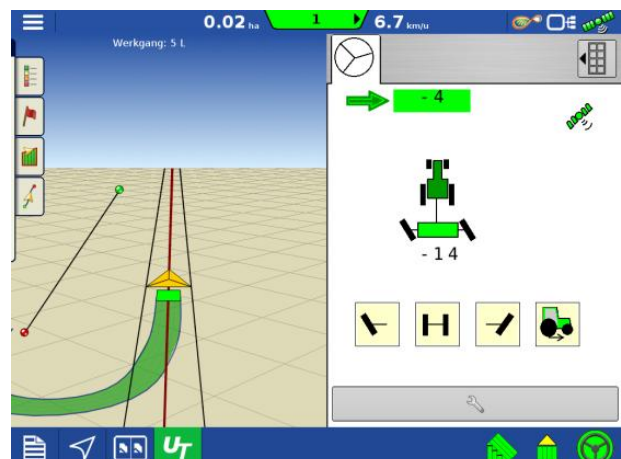
Requirements on implement aside SmartSTEER hardware are:

- Cylinder and electro hydraulic proportional valve for steering
- Potentiometer (5V or 12V) for actual steering cylinder position
- In case of wheel steering: switchbox to choose between auto & original (implement) steering
- ParaDyme or GPS6500 RTK antenna and respective mounting hardware/mast

Tractor must be equipped with Ag Leader ISOBUS unlocked display and ISOBUS implement receptacle. Tractor should have sufficient hydraulics to easily steer the implement.

Required Parts:

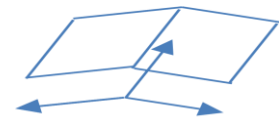
Minimum required parts from Homburg are Controller and harness kit:



SmartLEVEL[®] RTK leveling solution

SmartLEVEL is a GPS leveling kit for Ag Leader ISOBUS GPS displays. SmartLEVEL runs on the ISOBUS VT screen using a (Glonass) RTK antenna for elevation control:

- Functionality is comparable with laser leveling but SmartLEVEL allows double roof modeling and can optionally work with prescriptions
- Basically one main direction is chosen and grade can be set in up to three directions
- Three functions modes operated by joystick:
 - Manual Up-Down
 - Full automatic elevation control for finalizing
 - Semi-automatic (scraper will not go below set level/grade)
- It is possible to use the tractors RTK antenna on the scraper (this will not allow autosteer while scraping)
- Provides scraping/leveling with RTK accuracy
- Hardware exists of SmartLEVEL controller and harness
- Control via an easy to use ISOBUS VT user interface
- Joystick has separate connector
- System is foreseen to implement additional foreign languages



Requirements:

Scraper must/should be equipped with SmartLEVEL hardware plus:

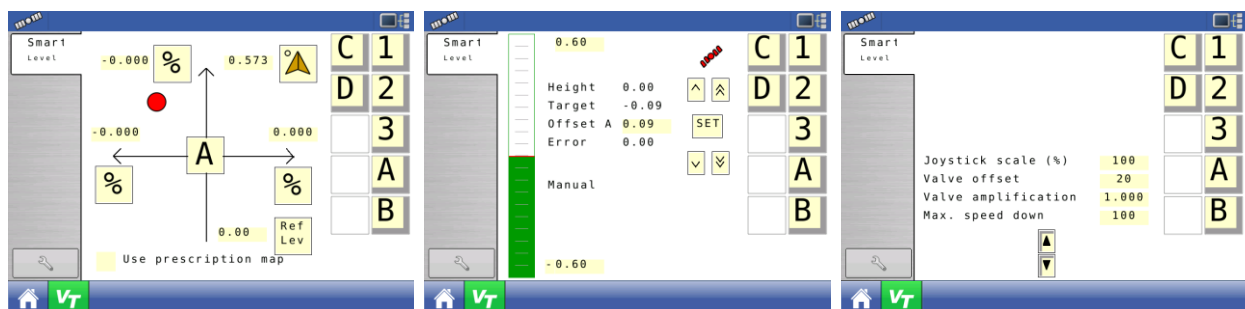
- SmartLEVEL demands the display to run in METRIC mode
- Electro hydraulic (proportional) valve for lifting/lowering
- ParaDyme or GPS6500 RTK antenna with Glonass enabled and respective mounting hardware and mast

Tractor must be equipped with Ag Leader ISOBUS unlocked display and ISOBUS implement receptacle. Tractor should be able to provide sufficient hydraulic power to easily lift the loaded scraper.

Required Parts:

Minimum required parts from Homburg are Controller and harness kit with joystick:

- SmartLEVEL module with GPS input, ISOBUS interface, PWM valve output, poti input (lifting)
- SmartLEVEL harness with joystick and NMEA and ISOB US implement connector connections





Compatible with: **Ag Leader[®]**
Technology