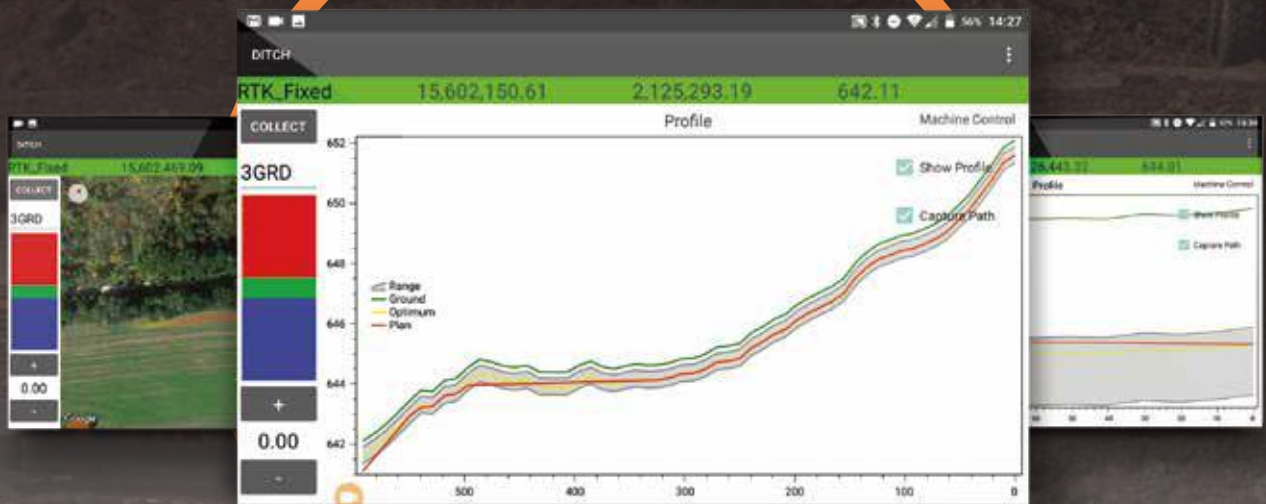


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DITCH

AUTOMATED DITCHER
CONTROL SOLUTION



MACHINE CONTROL
& CONSTRUCTION

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AUTOMATED **ACCURATE, RELIABLE** **HIGH PERFORMANCE**

Control standing water on any terrain to increase yields and reduce nitrogen loss. Control moving water to minimize phosphorus and potassium loss and keep applied fertilizer where it is needed. Eliminate the erosion of any terrain and valuable soils utilizing customized designs, for improved soil quality and crop yields.

DITCH works with in-depth pre-planned designs as well as in-field depth and grade designs. AMW's new DITCH Solution is based on years of experience in water management by managing surface drainage. DITCH also provides for topographical map creation by driving the terrain, and or layering a geo-referenced yield map, Google map, satellite image, aerial photo or other user defined maps to identify water ponding areas and drainage strategies, for planning and soil placement. Now, on our new Android computer platform with survey grade RTK, operation has been simplified and updated and includes all hardware needed for a quick install.

Easy To Use And Flexible

Mark the line for a new ditch from field analysis and gathered topo data. Analyze existing ditches for depth, flow and discharge points. Use DITCH to auto control a scraper or ditcher to cut and fill to design. Accurate to +/- 0.6 inches or better.

In Field GNSS Ditching In 3 Easy Steps

Drive a path high to low point; Press a button. Set ditch parameters to design ditch. Start Ditching!

Vertical Curve Technology

DITCH uses Vertical Curve Technology to design drainage solutions. Once the preferred parameters are set, VCT designs a drainage solution that controls grade changes in the smallest increments possible through the drainage path, minimizing needed depth and soil movement. This technology allows acceptable drainage in unfavorable landscapes.

WATER COURSE

WATERCOURSE is an optional Windows PC software tool for designing a precise water management system with grading, ditches and tiling options. It compiles layers of map data to interpret and improve upon the natural watershed. DITCH can import an exact layout design from WATERCOURSE for professional results.

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 **EASY
TO USE**



VERTICAL CURVE TECHNOLOGY

SPECIFICATIONS

Logic Instrument K101 Tablet

- 10.1" Touch Screen
- Android 5.1
- 1.92 Ghz Processor
- 5 Mega pixel camera
- IP65/MIL-STD-810G Environmental
- 10000 mAh Li-ion battery

CHCNAV P3DT RTK Rover

- 220 channel Trimble GNSS RTK engine
- L-Band, GPS, SBAS, GLONASS, BDS, GALILEO dual frequency
- Heading accuracy 0.08 degree with 2m antenna spacing
- Horizontal Accuracy: 8 mm + 1ppm RMS
- Elevation Accuracy: 15mm + 1ppm RMS
- CE/FCC certified
- RJ-45, Bluetooth, Cellular & UHF coms equipped
- CHCNAV A220GR Geodetic antenna

CHCNAV i70 Surveyor RTK Base

- 220 channel Trimble GNSS RTK engine
- GPS, SBAS, GLONASS, BDS, GALILEO dual frequency
- Dual hot swappable batteries for up to 12 hrs operation
- Bluetooth, WiFi, Cellular & UHF coms equipped
- LCD Screen
- CE/FCC certified
- Horizontal Accuracy: 8mm + 1ppm RMS
- Elevation Accuracy: 15mm + 1ppm RMS

DANFOSS Plus+1 CANBUS Controller

- Auto detects vehicle type. Used to send commands to hydraulic systems

Options

- Inclinator, Valves

Operating System Compatibility

- Android 5.1 or higher

Included Accessories with DITCH

- i70 Hard Carrying Case with accessories, UHF antenna
- 2 x lithiumion batteries
- Vehicle magnetic mount for i70
- Tablet power adapter, pouch, stylus and USB cable
- DITCH Quick Start Guide
- RAM Mount Kit
- All interconnect cables

Software

- Creates Topo, or import Topo, Design, & Google maps
- Compatible with all GPS brands, calibrated with CHC i70
- Interfaces with Tractor / Dozer Remote Valves and CANBUS
- Works with all scraper and ditcher configurations
- Shows plan and profile views
- Minimum slope adjustment of the ditch
- Utilizes Vertical Curve Technology - VCT
- Ditch Cut Fill management with display of +/- grade of ditch

Ditch Placement

- Automatic control of the machine
- Creates Ditch plan from SVY using auto depth parameters
- Displays grade and direction of ditch (point to slope)

Guidance

- Uses background drawing layer for map and line work
- Uses .bmp for background image

Data Collection

- Creates as-built maps (.shp & .dxf)

*Specifications are subject to change without notice.

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