



One of Falker's great differentials is to offer a complete and integrated solution, serving from the beginner in the use of precision agriculture to the customer with advanced needs and high demand in data collection and processing.

Robust and dimensioned equipment for use in the field, the Falker Precision Agriculture Kit provides everything you need for data collection from a single technology provider.

Falker has supported over a hundred companies to start working with Precision Agriculture.

In addition to providing the necessary equipment, we have experience in training the agronomic team of customers to use the new technologies.

> The unique support for the entire Kit speeds up the solution of doubts and problems.



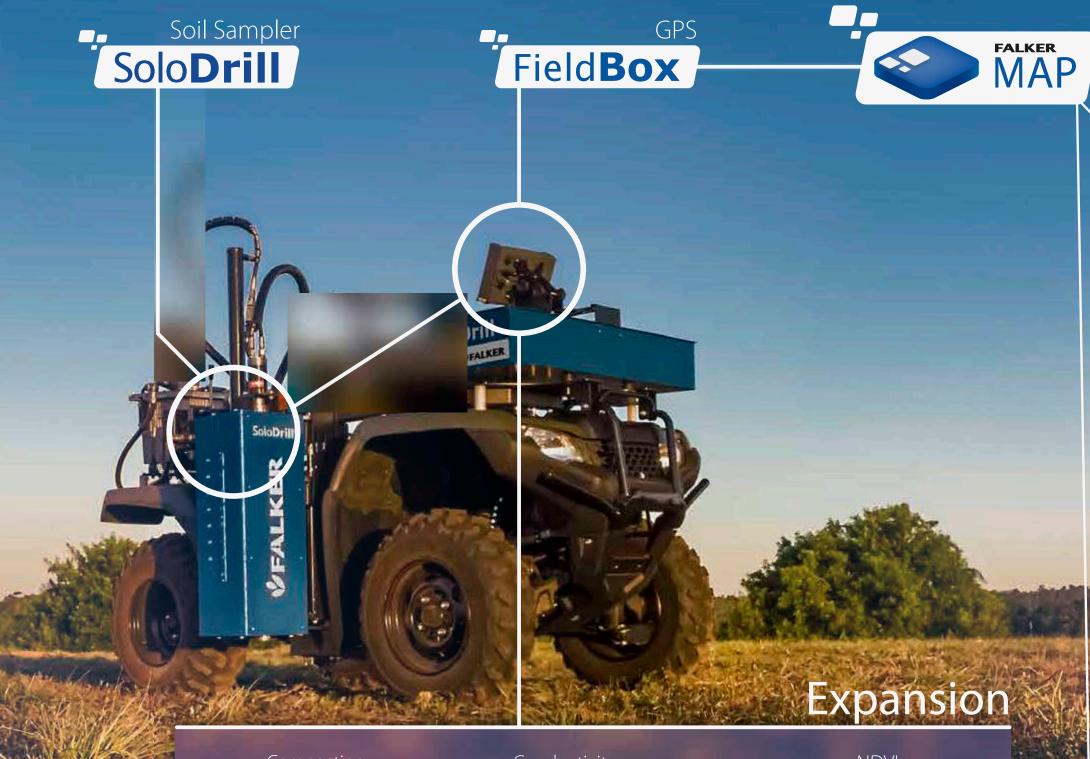
Training



COMPLETE SOLUTION FROM SAMPLING TO MAP

Software

Map Generation











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Sampling quality is essential when it comes to precision agriculture. The SoloDrill soil sampler was developed to perform samples according to the measurement specifications, both in depth, elimination of impurities and without loss of material.

Easy to use and simple to maintain. To make it easier, the engine start is electrical by default

In addition, drill sampling provides larger operating windows as it operates in broader soil moisture conditions.

Sampling quality Depth Reliability

Sample protected from contamination

from the beginning of the operation through the straw cutter and internal collection pot



guarantees sampling in different soil

Drill speed

regulation

conditions

Guaranteed contact with the ground through the turret's descent piston

Depth guaranteed

with a simple and efficient system that does not depend on ruler or operator



High performance drills

SoloDrill has two types of drill, special high-strength alloys, adapted to different working conditions



SoloDrill has optional box for soil samples and **funnel** for sample storage







Installation Options

Each option has characteristics that allow it to better meet different needs for working conditions.

Trailer versatility, agility and ease of transport on the ATV, comfort on the van and tractor. The Precision Agriculture Kit adapts to every need.

Agility
Transport
Comfort
Trafficability
Sampling
visibility



Trailer



ATV



UTV





Pickup Truck







depends on the vehicle

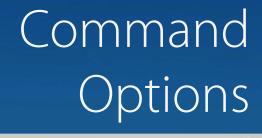
Leaves the vehicle free when sampling is not taking place

It presents good agility for field work and proximity to the sampling operator. It is the most usual option

Features good field travel capability and operator comfort

Ease of movement between different properties, with restrictions for movement in crops

Use vehicle already present in properties





The operator has manual control of each sampling step.

Hydraulic



Electric
Remote activation, for installations in vehicles with cab.



Automated
Operation through the
FieldBox, with complete
record of the collection point
information and sampler
operating parameters.

Electronic configuration of sampling depth. Registration of subsamples, path traveled and all sampler parameters during each sampling



Field Box GPS and Field Navigation

FieldBox is a practical and efficient solution to guide data collection work in the field. By combining a simple interface with powerful hardware, it allows a complete record of operations. GPS made for precision farming.

Very easy and intuitive to use

Software designed for use in the field

Metal body for field work, ensuring resistance in the most adverse conditions

Possibility of subsamples and management zones

Made for the field

Metallic and water resistan't body.

Simplicity of use

Simple, intuitive software.

7 "screen that facilitates

ensures visibility under

various light conditions,

including in the sun.

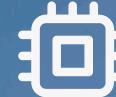
the operation and

Screen



Compatibility

By exporting and importing data in Shape format.



Powerful hardware

Quad-core processor, 8GB internal memory, 1GB RAM and thumbdrive data transfer.











Full integration

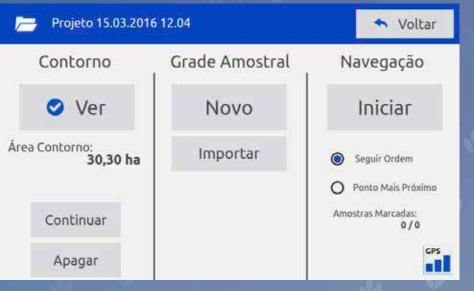
FieldBox can also work as an interface and data collector for **Automated SoloDrill, Terram, and Flexum.**





The self-explanatory interface, with clear and straightforward options, makes users have maximum productivity with minimal training. Possible options and configurations give flexibility for different ways of working.







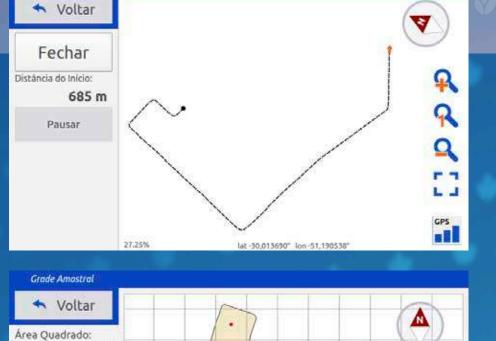
Creation of contours and grids

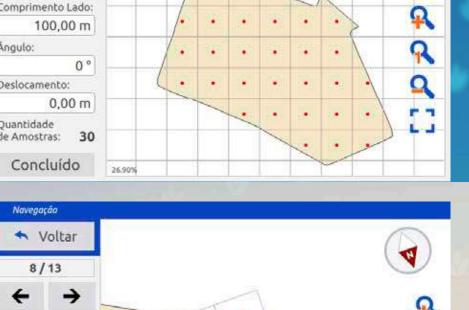
Editing sampling grids

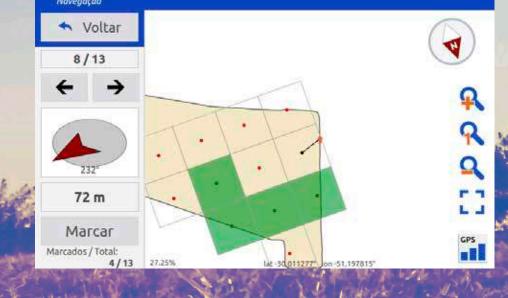
Guide to the points

Grid and contour import

Record of the path taken













With FalkerMap, your data stays online all the time and you don't have to worry about backup copies and a safe place to store your maps.

Simple Direct Intuitive

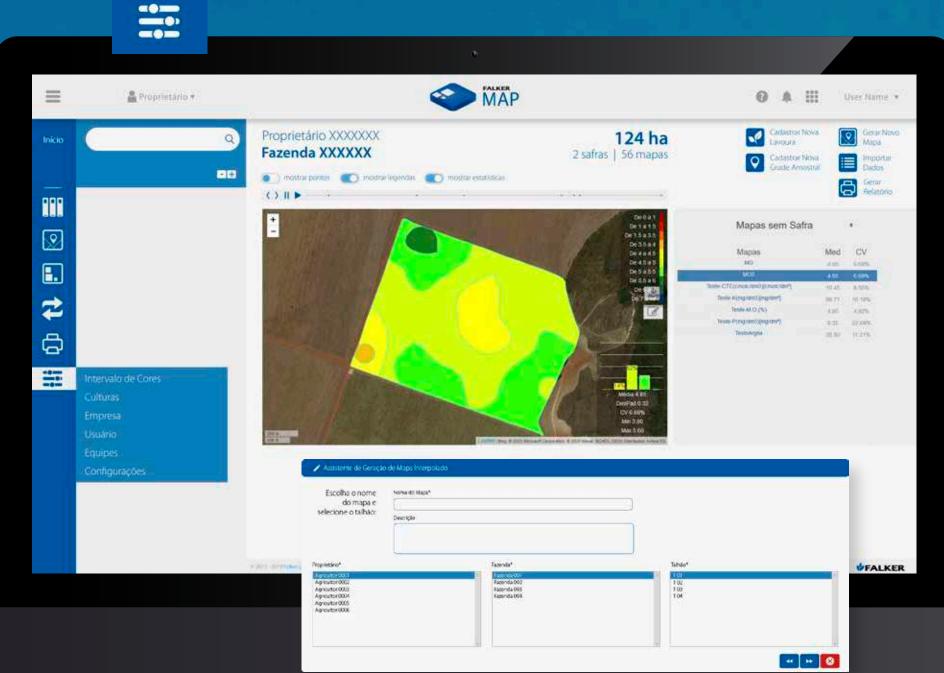
FalkerMap is an online system developed with a focus on the user and an efficient workflow for you to easily create fertility and prescription maps for variable rates.

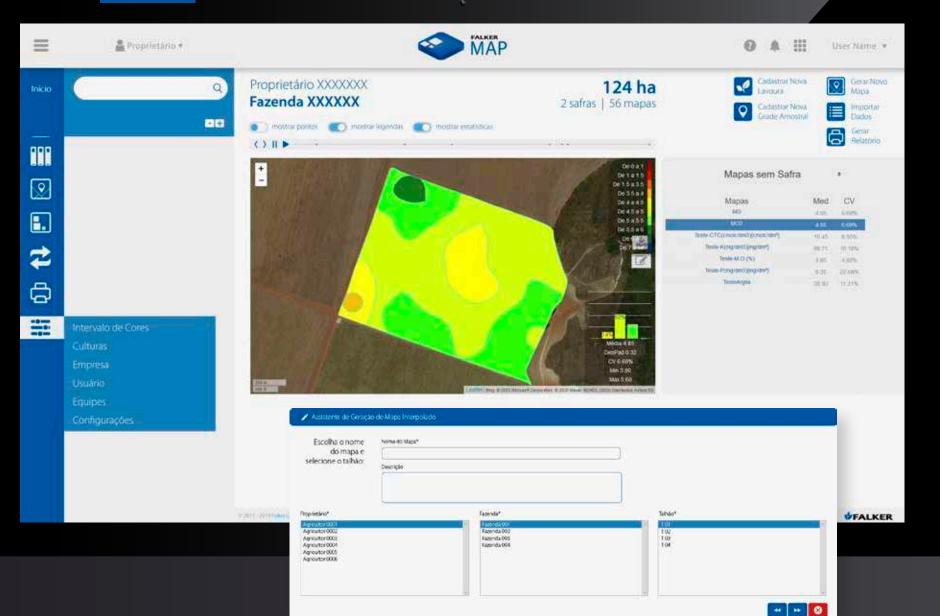
With a simplified interface, all functions are easily accessible, improving performance in the generation of maps and prescriptions through the exclusive graphic system for editing agronomic formulas.

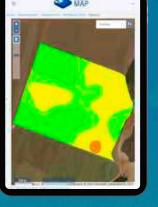
From creating maps to remote consultation, FalkerMap is the ideal tool for those who want to know their crops in depth in search of the best performance.



Ease to Use









Multiplataform

Being completely online, FalkerMap eliminates installation and care with backup copies of the database. It can be accessed from a computer, tablet or smarphone, maintaining all its capabilities on different platforms.

The security and flexibility of a fully online system





Focus on agronomic work, with access from anywhere, without wasting time with programming of formulas and repetitive routines

FalkerMap has all the necessary tools for generating fertility maps, agronomic formulas for application prescription up to variable rate maps, providing a rational use of inputs and resources.

An essential tool for those who want to make precision farming results, based on reliable data that accurately represent the variability of the crop.

With two versions available and licenses depending on the size of the areas you are going to work on, FalkerMap is the right solution.

Features





Fertility Maps





Seed Population Maps



Agronomic Formulas



Interpolation



Reports



High Density Maps



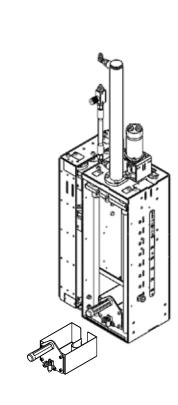
Working with Management Zones

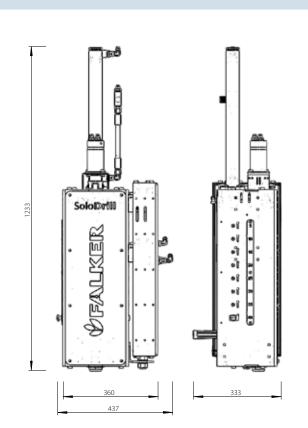


www.falkermap.com

SoloDrill Hydraulic Automated 40 cm, adjustable every 1 cm via software Maximum Sampling Depth adjustable from 5cm to 5cm Nominal Drill Insertion Speed Adjustable (2 cm / s recommended) Command 3 control levers Control panel (push button) Hydraulic Unit Hydraulic pump driven by: - gasoline stationary engine and electric starter (standard) - engine power outlet (only for Honda TRX420 ATV) **Drill Rotation Speed** Adjustable (200 to 950 rpm, approximately) 7/8 "or 1" Drill Diameters Diagnostic Instruments - Manometer (block pressure) - Hydraulic fluid pressure and temperature -Thermometer (oil temperature in the tank) - Pump and drill rotation speed - Instant sampling depth - Oil level in the tank - Stationary engine oil level sensor - Instant turret and drill position 63 Kg - Sampling tower System Weight 66 Kg - Complete Hydraulic Unit Weight of fixings not included. They vary according to the installation. Total Equipment Height 125 cm

Electrical supply for modules
FieldBox and electronics AMS45XX:
Standard 12V
Tolerable 10 to 14V





Auxiliary Technical Information Table

Type of stationary

20W50 (4T engine oil)

Crankcase oil capacity 0.5 liters

Stationary Engine's Fuel tank capacity 3.6 liters

(3 to 4 hours in full gear)

Oil type - hydraulic system ISO 68 or ISO 46

Maximum operating pressure of the hydraulic system

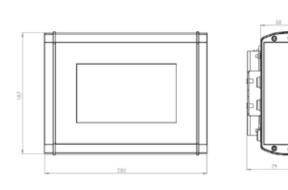
system 120 bar

Maximum oil operating temperature in the hydraulic reservoir

70°C

FieldBox

TICICIDOX	FBX3150	
Screen	7 "Touch-screen visible in the sun	
Screen Resolution	800x480 pixels	
User Interface	Touch-screen	
Processor	Quad-core	
RAM Memory	1GB	
Internal Memory	16GB*	
Format of Saved Data	Shape Format	
Data Transfer	By USB flash drive	
Power	External 12V	
Maximum Consumption	1 A	
Protection	Water resistant (IP54) **	
Weight	2,5 Kg	
GPS Communication Protocol	NMEA 0183	



- * Total memory, partially occupied by the system. User available memory is approximately 12 Gb
- ** Resistant to water splash, not resistant to water jets or immersion in water. Be careful when transporting and washing the vehicle where the FieldBox is installed.

FALKER I / / / D	W V	
MAP	Basic	Pro
Fertility Maps	✓	✓
Calculation of Recommendation Formulas	✓	✓
Variable Rate Export	✓	✓
Compaction Maps	✓	✓
Printing Multiple Maps	✓	✓
Online Data Protection	✓	✓
High Density Sensor Maps (conductivity, NDVI)	×	✓
Harvest Maps	X	✓
Aerial Images	×	✓
Management Zones (UGDs)	×	✓ *
	* Extra module fo	or the Pro version

Technical Information

Expand the data layers used in decision making to achieve maximum productivity



Automated Soil Compaction Meter

Equipment for performance in large areas. Efficient and robust, it can be installed in different vehicles.

The best solution for compaction maps

Ideal for large quantities of measurements

Fully automated operation



NDVI Active Reflectance Meter

It performs the optical analysis of the development and nutritional status of the crop during field operations, in any climatic condition.

It allows diagnosing problems for immediate fertilization adjustments.

High data density for high resolution map generation

Effective and practical

Can be installed in several types of vehicles, taking advantage of the operations already programmed



Soil's Electrical Conductivity Meter

It allows to know the variability of the field in a quick way, mapping with high density of data the characteristic of the soil.

Efficient in the field, compact in transport

Allows use in different types of vehicles

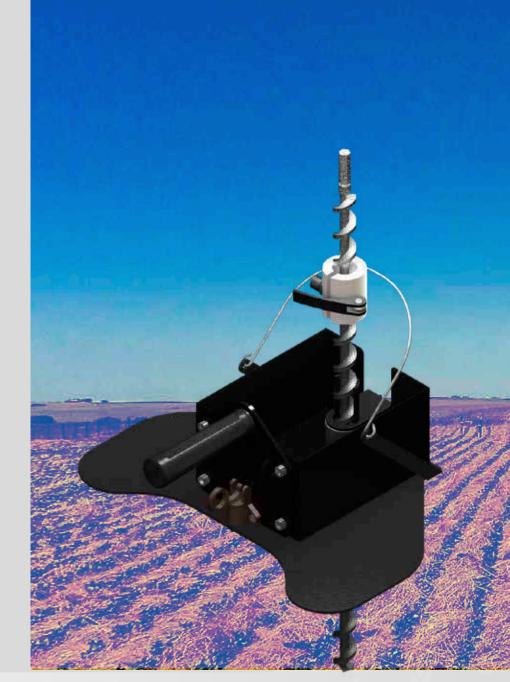
Essential for creating management zones

For use with gasoline or electric drills

Starter Kit

Composed by the sampling drill, high durability steel collection pot, base and depth limiter, it allows an agile and quality sampling, with low initial investment.

An option for those who want to start small and grow with technology.











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The Most Complete

Precision Agriculture Line