



# FALCON

AUTOMATED SOIL SAMPLING



HIGH-QUALITY PRECISION  
SOIL SAMPLING MADE SIMPLE



## AUTOMATED PRECISION SOIL SAMPLING MAXIMIZES QUALITY

- ① Engineered for superior sample consistency and high daily sampling volumes
- ② Precision soil sampling designed to drive high-value precision fertility programs
- ③ Unsurpassed sample quality
- ④ Built farm-tough

## FALCON AUTOMATED SOIL SAMPLING SYSTEM

### High-quality precision soil sampling made simple

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- Precision soil sampling designed to drive high-value precision fertility programs

## FALCON SYSTEM BENEFITS

### Agronomists/crop consultants

- Improved sample quality
- Improved sample collection efficiency
- Cover more ground per day
- Superior customer satisfaction
- Minimal training requirements

### Growers

- Better fertility decision support
- Higher yield potential
- Optimized input efficiency
- Improved fertilizer precision
- Simplicity, reliability

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AUTOMATED SOIL SAMPLING

## THE FALCON SYSTEM: BUILT AROUND THE SIMPLICITY AND RELIABILITY OF THE WHEEL



A ground-driven 5-foot diameter stainless steel drum collects and mixes cores every 15 feet



Depending on the desired core depth, a 4" to 12" cone-tipped stainless steel probe with a replaceable tip collects and deposits a soil core into the stainless drum with every revolution



When the user-defined core count is achieved, a 12-volt motor raises and rotates the drum to assure proper mixing as the Falcon drives to the next sampling site



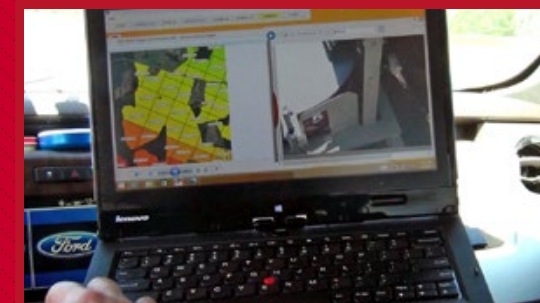
A stainless steel funnel is lowered to fill the mixed sample into a pre-labeled sample bag in a 12-position keyed carousel



13 on-board carousels allow 156 samples to be collected before refilling



To allow the operator to monitor operations, a wireless illuminated camera streams video to a laptop computer in the tow vehicle



Falcon functions are controlled by remote control or the wireless laptop, which also guides the tow vehicle using standard GPS-enabled soil sampling software



Field operating speeds typically vary from 8 to 12 mph, depending on field conditions. On the road, the Falcon can be towed at normal speeds



PHOTO  
TO COME

“ It’s a rugged, simple, straightforward design. It doubled the number of samples we could take per day, while substantially improving the quality of each sample. ”

— *Rich Wildman, Agrinetix Advanced Agronomy & Technology Consultants, Rochester, NY*

PHOTO  
TO COME

“ The Falcon allows you to sample twice as many acres in a day as two guys hand-sampling. It also takes out human error in terms of depth and core frequency and improves the accuracy of the sample. This is especially important for the variable-rate fertility programs we use in our operation. ”

— *Bob Stewart, Stewart Farms, Yorkville, IL*

PHOTO  
TO COME

“ Typically, we recommend 10 cores to make up a soil sample, but most people take five because of time constraints. The Falcon system speeds up soil sampling, so the time it takes to collect enough cores becomes a non-issue. This system will allow you to increase the number of cores per sample and can be used to produce more samples per field, to get the intensive sampling that will provide the high-resolution soil test data needed for variable-rate precision fertilizer applications. ”

— *Harold Reetz, Reetz Agronomics, Monticello, IL*



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