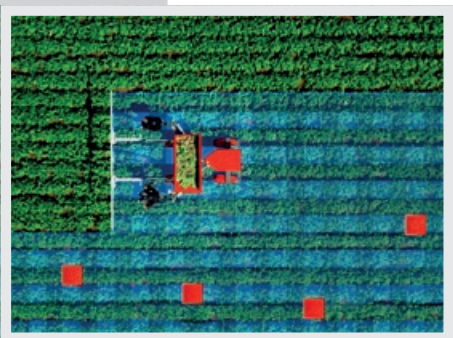


SELECTO VISION

VEGNIEK



IN AN EARLY STAGE AND ACCURATE DISEASE DETECTION IN POTATOES USING THE SELECTO VISION



Automatic disease detection



Easy machine training



Proven foundation

WWW.VEGNIEK.NL

AUTOMATIC DISEASE DETECTION

The Selecto Vision is a camera-guided roguing cart that uses cameras and artificial intelligence to automatically detect diseased potatoes. As soon as a diseased potato plant is detected, the machine stops automatically. The infected plant is then marked by a blue-spot lamp so that it can be removed immediately and thrown into the de tipping bunker. This results in an efficient working method with minimal driving movements in the field.

Depending on the disease pressure in the specific variety, the machine can be operated by one or two people. The seats are hydraulically adjustable, allowing the operator to position the seat in the center of the machine when it is operated by a single person. Once the system has collected enough data, the selection process can be carried out completely by one single person, without requiring extensive knowledge of potato selection.

EASY MACHINE TRAINING

Seed potato selection means working with a natural product and, as a result, with constantly changing conditions. This includes different growth stages, new varieties, various plant characteristics and potential new diseases. That is why it is important that users can easily train the system, when necessary, using new disease patterns, crop varieties, and conditions. The frame on which the cameras are mounted is positioned out of the operator's field of view. This provides a clear view of the crop, enabling efficient machine training.

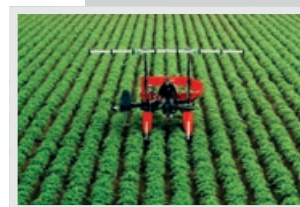
The system is continuously being developed, which means that its accuracy improves more and more as more data is collected. During the potato selection process, the machine collects all relevant information, including GPS coordinates. This allows the system to review previous selection rounds when a detection is made, and trains the system to recognize diseased plants at an earlier stage.

PROVEN FOUNDATION

The Selecto Vision is built on the same trusted foundation as our traditional Selecto. The Selecto Vision has a working width of 6 meters (8 rows) and is powered by a 25 pk 3-cylinder diesel engine. The machine steers by means of articulated steering and follows the track, making it very maneuverable on small headlands.

The machine features a hydraulically extendable camera boom equipped with 8 high-resolution cameras and 8 blue spot lights. Because the cameras are mounted at an elevated position and point straight down, the system is minimally affected by bright sunlight. Their smart positioning ensures that the cameras never face directly into the sun.

In addition, the machine is standard equipped with a wide range of features, including cruise control, a hydraulically tipping bunker and height adjustable stainless steel haulm guides with spring-loaded break-out protection. The machine is operated using a joystick and a large touchscreen display, and dedicated push buttons.



BENEFITS

- ✓ Accurate, automatic disease detection
- ✓ Easy to use
- ✓ Detection and removal in a single pass
- ✓ Robust detection system without covers
- ✓ Eight high resolution cameras
- ✓ Elevated cameras outside the operator's field of view
- ✓ Two GPS receivers for accurate location positioning
- ✓ Powerful four wheel drive
- ✓ 25 HP three-cylinder diesel engine
- ✓ Two hydraulically height-adjustable seats
- ✓ Cruise control combined with electronic throttle control
- ✓ Height-adjustable stainless steel haulm guides with break-out protection on the front wheel caps
- ✓ Large hydraulic tipping bunker

OPTIONS

- ✓ Radio with Bluetooth and two speakers
- ✓ Storage compartment for boots etc.
- ✓ Lift device for transport including width signs and lighting
- ✓ Accumulator for seat suspension
- ✓ Adjustable seat

TIP!

SEE HOW
THE SELECTO VISION
WORKS?
SCAN THE QR-CODE:



STANDARD PROPERTIES

Engine: 3 cylinder 25 hp diesel
Sensor for straight driving
Weight: 1980 kg
2 hydraulically adjustable seats
Working wide: 6 meter
Large wheel: 8.3R24
Touchscreen display: 15.6 inch