

YIELD XACT

ACCURATE YIELD MONITORING
SOLUTIONS FOR CONVEYOR
TYPE HARVESTERS

powered by
Agroplanning

AGXTEND
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NEXT GENERATION YIELD MONITORING

YieldXact is an innovative yield monitoring solution for conveyor type root harvesters.

KEY FEATURES

- Real-time tracking of harvesting activity
- 100% retrofitted kit for all harvester brands
- Suitable for self-propelled and pulled harvesters
- Easy calibration of the monitoring system with user-friendly interface
- Validated weight precision tests
- Works on existing VT ISOBUS displays
- Wireless data transfer to YieldXtend portal
- Easy map visualization of yield and vehicle data through the YieldXtend portal



BENEFITS

- Easy to install and calibrate aftermarket kit
- Real-time accurate yield data with prescription and yield potential map creation
- ISOBUS-compatible solution
- Monitoring system with Auto Start
- Up to four load cell configurations possible
- API available to connect to other agronomic software programs
- Implement & operator ID can be easily tracked
- Automatic rows reset
- Active slope compensation

MULTIPLE SUPPORTED CROPS:



Potato



Sugar beet

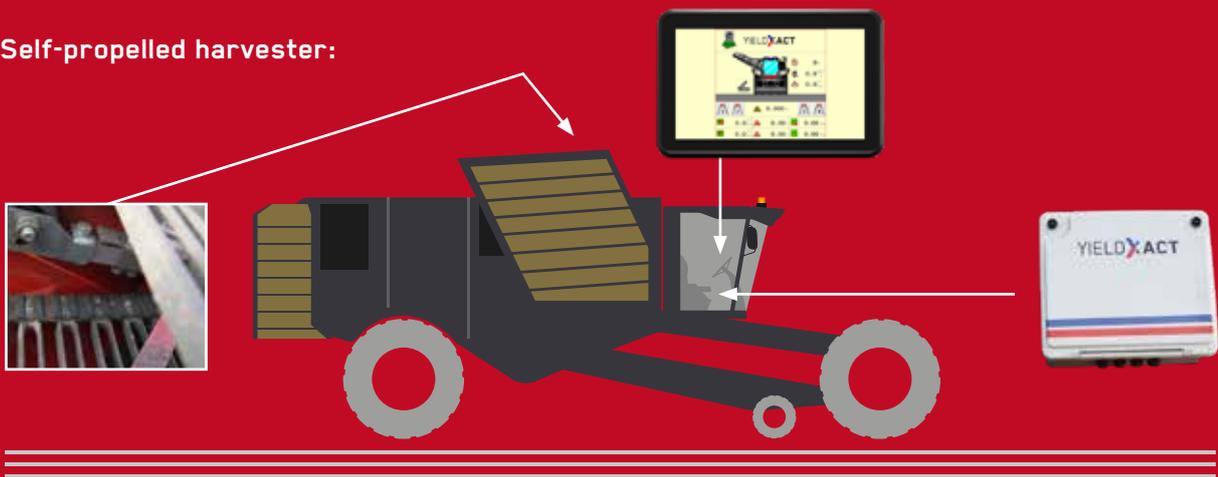
YIELDXACT KIT

The YieldXact kit consists of several components to build a full monitoring system on a harvester machine:

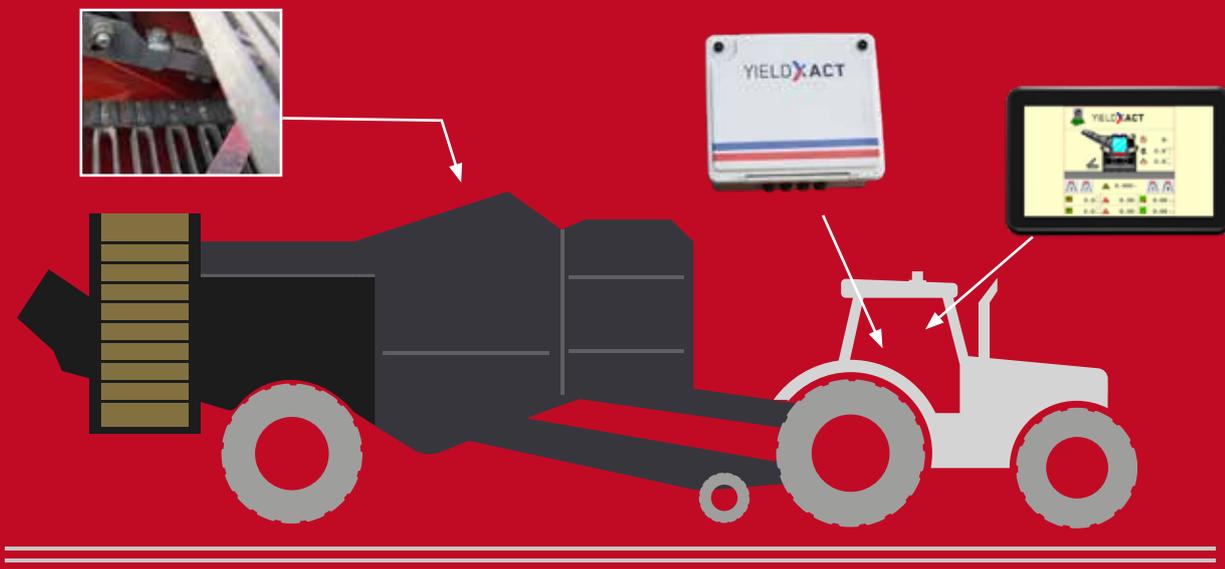
- **2 load cells** installed at both sides of conveyor for continuous weight monitoring
- **Speed sensor** installed at the back of the conveyor for rpm monitoring of mass/time calculation
- **Inclinometer-junction box** installed at the side of the conveyor for current inclination monitoring + connections to load cells and speed sensor
- **ISO ECU** installed in the harvester cab
- Linkerbox = **GPS-Modem** (sim card required)
- ISOBUS display in the cab

FOR SELF-PROPELLED AND PULLED HARVESTERS

Self-propelled harvester:



Pulled harvester:



WORKING PRINCIPLE

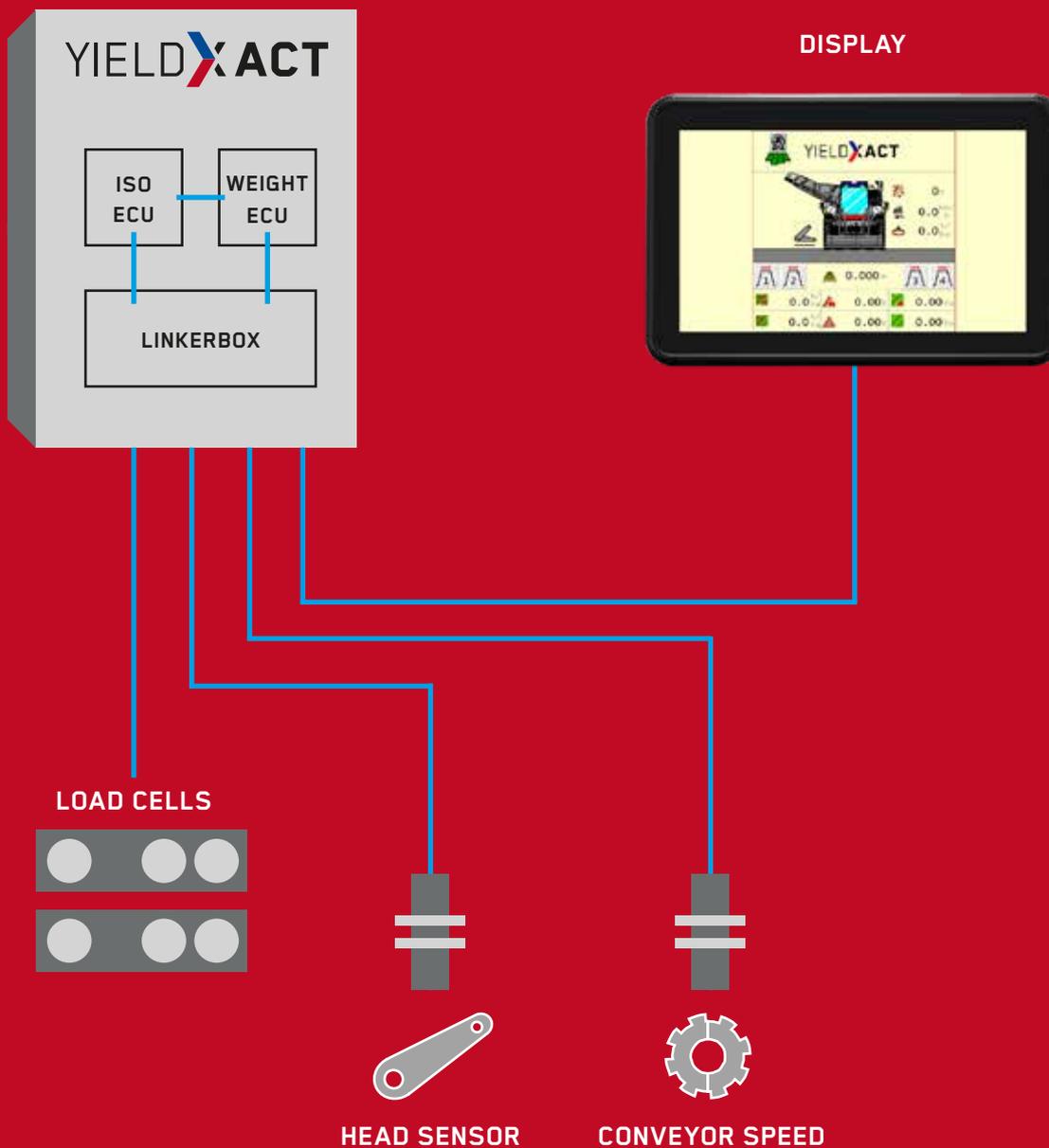
Installation of load cells on the conveyor belt, where the crop is at the cleanest to measure the real weight of the crop without any additional dirt residues.

The conveyor speed is measured continuously and combined with the actual inclination value and conveyor dimensions to calculate the crop flow.

By adding the machine speed and actual working width, the actual yield (kg/ha) is defined.

In a nutshell, the higher the crop weight and speed, the higher the yield.

Finetuned with easy calibration of the system and cross-checked with real weight tickets.



YIELDXTEND PORTAL

Analyse the data, create yield maps and generate graphs in just one click: all data monitored with YieldXact are uplinked to the YieldXtend portal in real-time with a modem integration on the machine.

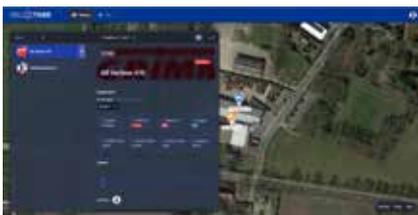
BENEFITS

- Import, create, edit your farms and fields and save them into the cloud
- Visualize data in real-time or post-process
- Split the view in four maps to easily compare different layers of information in the same field
- Load NDVI (Life Remote Sensing, Normalized Difference Vegetation Index) sentinel data and check the crop evolution during the season
- Create prescriptions from a single layer of information or combined layers and add your own formulas
- Automatic compensation of crop delay and yield filtering processing
- Built in statistical tools to properly filter out and identify in-field variations
- Create PDF reports or export your data as shapefile

KEY FEATURES

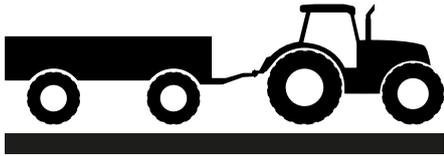
- Alarms: curfew, geofencing, maintenance parameters, automatic rules
- Multiple languages supported
- Available as web and mobile application
- Different subscription validity (6 or 36 months)

YIELDXTEND



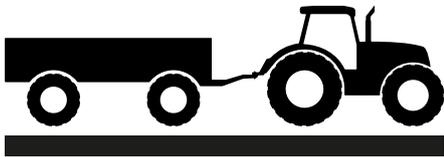
PROVEN TECHNOLOGY

Precision weight tests have been conducted on a potato harvester to prove the accuracy of the measurements.



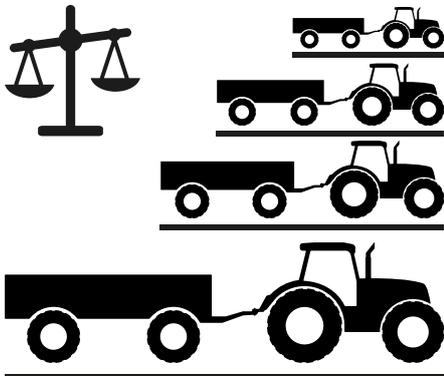
Trailer 1:

YieldXact measurement:	23.19 tons
Real value:	23.14 tons
Deviation:	0.05 tons (+ 0.2 %)



Trailer 2:

YieldXact measurement:	19.47 tons
Real value:	19.58 tons
Deviation:	0.11 tons (- 0.5 %)



Complete field (5.88 ha):

YieldXact measurement:	372.79 tons
Real value:	369.85 tons
Deviation:	2.94 tons (+ 0.7 %)

LESS THAN 1% DEVIATION BETWEEN YIELDXACT MEASUREMENTS AND REAL VALUES.



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AGXTEND is a CNH Industrial aftermarket brand dedicated to accelerating pioneering technical solutions in agriculture. We do this through product development partnerships with agtech start-ups. Leveraging CNH Industrial's expertise and global network, AGXTEND aims to deliver rapid innovation, sustainability and productivity-boosting equipment add-ons that help make farming easier and smarter. Visit agxtend.com for more information.



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