

# ROBOTTI

We Automate Farming



AGROINTELLI





## FROM INNOVATION HOUSE TO GLOBAL PRODUCTION COMPANY

AGROINTELLI was founded in Denmark in 2015 as an innovation house for new technologies within agriculture. Initially, working closely together with universities and research institutions, AGROINTELLI introduced various new technologies for which the company has received many innovation awards.

### ROBOTTI

Manufacturing and distribution of ROBOTTI on a large scale is now the sole strategic focus of AGROINTELLI, motivated by current trends and challenges within the modern food production industry and the arable farming sector. ROBOTTI is commercial ready and already in operation at farmers throughout Europe.



## ROBOTIC IMPLEMENT-CARRIER

Ambitious farmers are seeking autonomous precision solutions for field work that are robust, powerful and obtain a fairly high working capacity. Therefore, AGROINTELLI has developed and is manufacturing ROBOTTI 150D.

A powerful ag-robot with a traditional diesel hydraulic setup has the capability of operating hour after hour – also during night.

ROBOTTI represents a more sustainable solution, because it consumes significantly less fuel than a traditional alternative – only between 3-6 liters pr. hour depending on the soil and operation.

Furthermore, ROBOTTI weights much less than a traditional alternative. Only around 3000 kg. This minimises the risk of soil compaction.



ROBOTTI has received the honourable “Solar Impulse Label”, which awards efficient, clean and profitable solutions with a positive impact on environment and quality of life.



## AUTONOMOUS FARMING

ROBOTTI is autonomously controlled by a computer and does not depend on a human driver. Based on your inputs, it calculates and navigates itself and follows an optimized route in the field. ROBOTTI operates hour after hour – even on weekends.

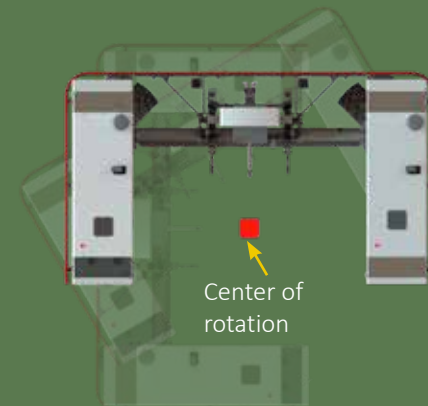
In the middle of the centre-boom, a standard 3-point lift is installed. This allows the robot to operate the field with many different implements throughout the season. The working width between the modules is standard 3 meters but can be customized towards the farmer's needs.



## ZERO-TURN

A “zero-turn” maneuver is when ROBOTTI makes a turn with a zero turning radius, i.e. spin about a stationary point. The technology enables ROBOTTI to do turns on narrow headlands and in this way increase the utilization of the field thus increase yields.

This is especially an advantage in bed systems, where headlands are usually not farmed.







## ROBUST AND RELIABLE

ROBOTTI is a diesel-hydraulic mechanical setup that operates without a human driver. ROBOTTI has a standard three- point hitch, therefore, ROBOTTI is robust, reliable and is able to carry standard implements already available on the market today. The robot consists of two modules, which are connected with a centre-boom.

ROBOTTI benefits from precise RTK GPS technology for navigation. RTK in general has an accuracy of plus minus 2 cm. However, our experience is that the design of the robot allows for more precise navigation than this.

## SAFETY

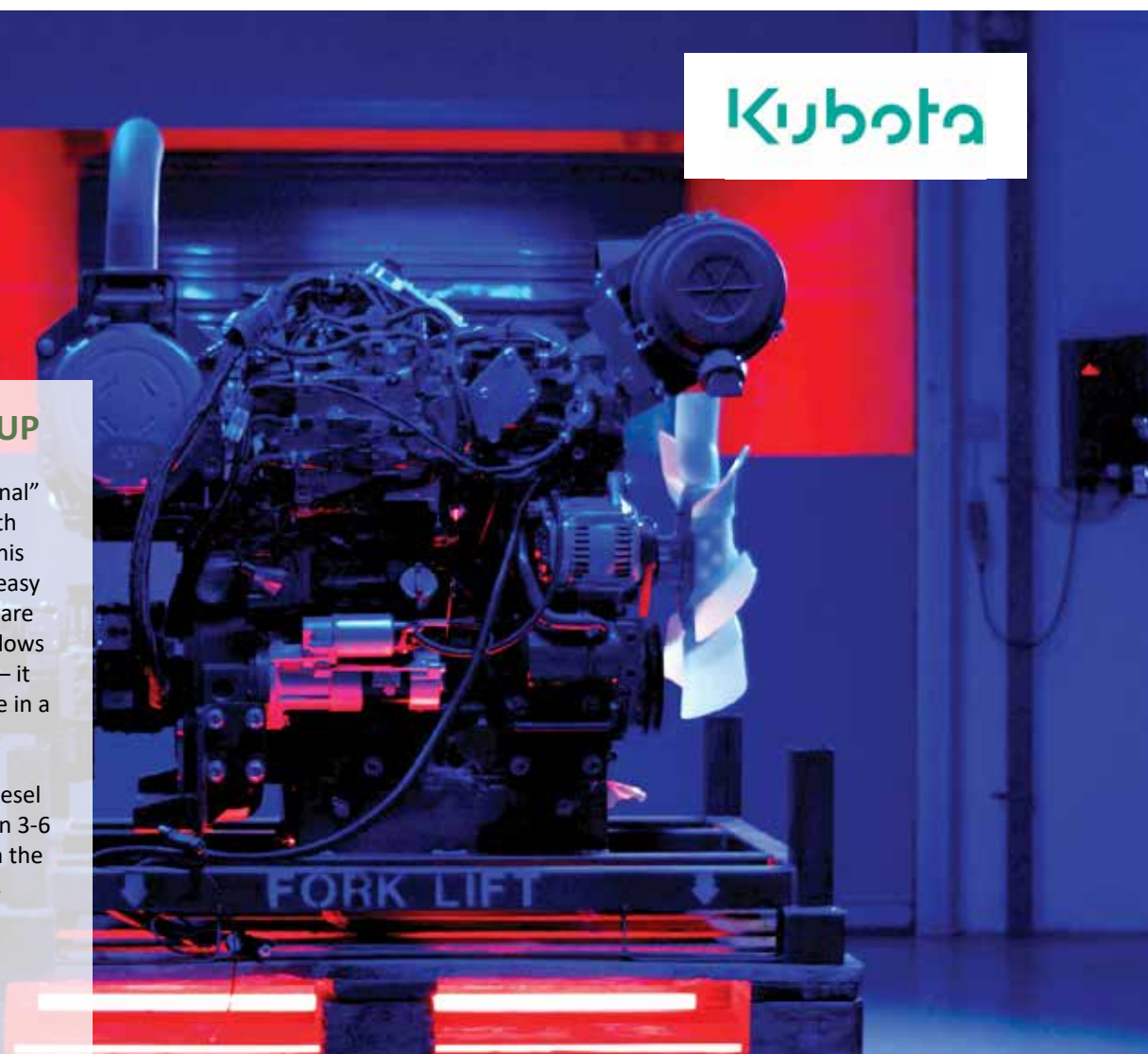
ROBOTTI is safe and legal to operate – also during the night. It complies to all standards and demands according to the EU Machinery Directive. ROBOTTI is CE marked, and the safety system of Robotti has been designed in a user-friendly way. This means that different safety technologies step in place in case of the unexpected.

The Kubota logo is displayed in a white rectangular box. The logo itself consists of the word "Kubota" in a stylized, teal-colored font.

## MECHANICAL SETUP

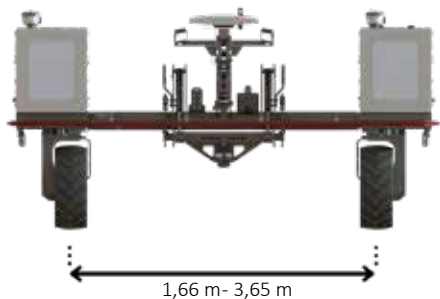
ROBOTTI follows a “traditional” diesel-hydraulic setup with standard components. This mechanical setup makes it easy to service, and spare parts are always nearby. This setup allows the robot to operate 24/7 – it only requires re-fuelling once in a while.

ROBOTTI has 2 x 110 liter diesel tanks and consumes between 3-6 liters pr. hour, depending on the task and soil conditions.

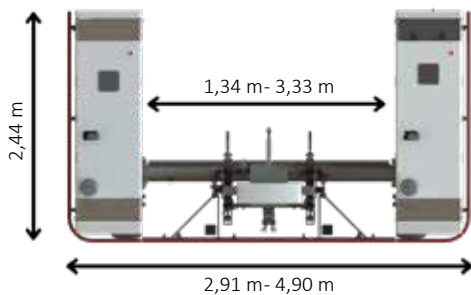


# CHOOSE YOUR WORKING WIDTH

Front view



Top view



Side view



**Note:** Other measurements available on request



**Wide (Default)**  
BKT Agrimax 320-65 R16  
Width: 31,9 cm




**Narrow**  
BKT Agrimax 260-70 R16  
Width: 25,8 cm

## TECHNICAL SPECIFICATIONS

ROBOTTI Model	150D
<b>ENGINE</b>	
Manufacturer	Kubota, diesel
Number of engines	2
Engine model	V2607-CR-T-EWO2
Cylinders per engine	4
Total engine (s) gross power (kW/hp)	106/144 (kW/hp)
Battery voltage	12V
Environmental standard	EPA/CARB Tier4 + EU Stage V
<b>TRANSMISSION SYSTEM</b>	
Forward speed in autonomous mode (km/h)	Up to 8 km/h (5 mph)
High speed (manual)	Up to 10 km/h (6.2 mph)
Low speed (manual)	Up to 5 km/h (3.1 mph)
<b>HYDRAULIC SYSTEM</b>	
Heavy duty PTO motor (20 kW 540 RPM/40 kW 1000 RPM)	Standard
One double acting proportional outlet (flow)	Optional
Two double acting and one proportional outlet (flow)	Optional
<b>SAFETY AND NAVIGATION</b>	
Pressure sensitive bumper	Standard
Emergency stop buttons	Standard
GNSS-based virtual fencing	Standard
Remote controller/joystick standard	Standard
Laser scanner	Standard
RTK-GNSS (GPS)	Standard
Vision computer and camera package (front and rear)	Optional
Light package (front and rear)	Optional
<b>ADDITIONAL SPECIFICATIONS</b>	
Lift capacity of the three-point hitch	750 kg in the lift linkage
Approximately weight	3100 kg
Drive system	4-wheel drive
Steering	2-wheel steering / zeroturn





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