

# Robotic strawberry harvesting on your farm



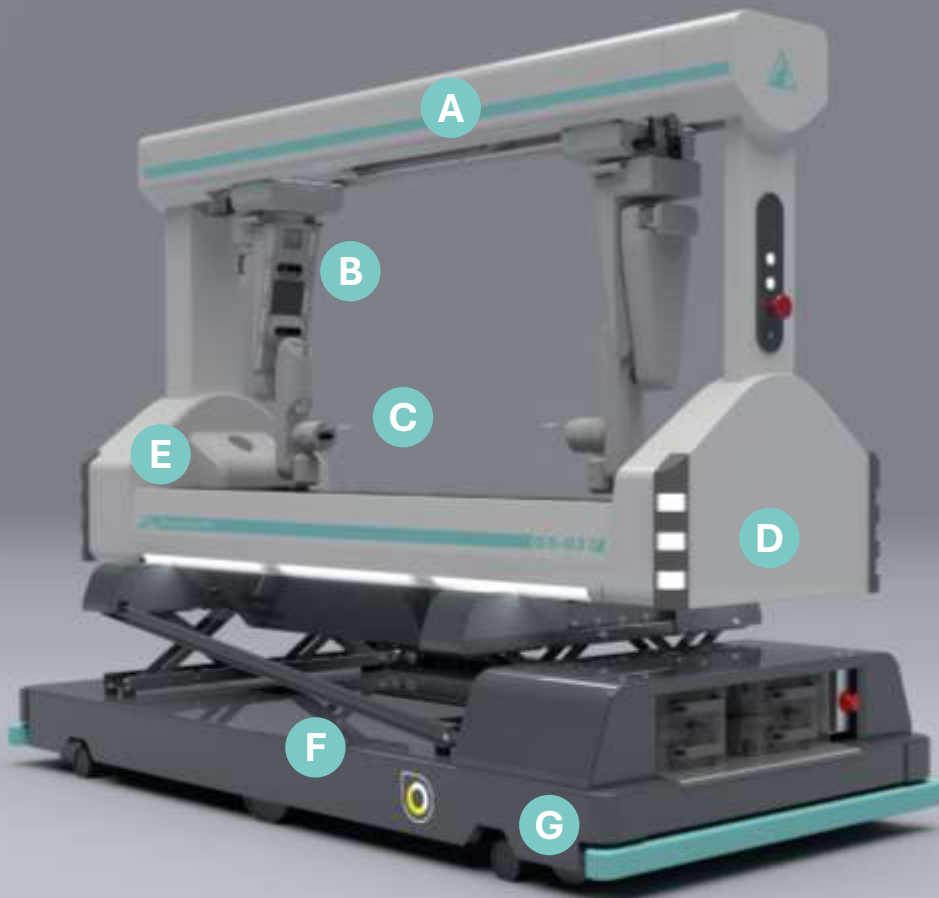
## GEN 5 ROBOT SPECIFICATION

Extraction rate	80-90%	Pipe rail spacing	>= 55 cm
Machine made waste	< 2.5%	Row pitch	>= 1.1 m
Productivity@nominal density	200 kg/day	Battery life	8 hours (swappable for continuous use)
Size (LxWxH)	2.4x0.7x1.8 m	Energy consumption	400 W
Weight	400 kg	Safety	CE marked

Other Requirements :

- Standard tabletop growing systems (glasshouse & polytunnel)
  - WiFi coverage
- Bi-weekly husbandry
  - Ever bearing & June bearing crop varieties
- 230 V AC@3A per robot for battery charging

# Fifth Generation Technology



- A** Picking module
- B** Vision guided picking arms localize and pick ripe fruit
- C** End effector grips/cuts stalk to eliminate cross contamination
- D** Storage for four trays
- E** Patented on-board inspection system eliminates QC overhead
- F** Vertical height and automatic lateral row position adjustment
- G** Vehicular platform moves autonomously along crop row

# Frequently Asked Questions

## What is the payback period?

For growers who benefit from PO funding our capital-plus-subscription model should pay back within a season compared to the cost of human picking. For other growers, the model will pay back inside of three years. Please contact us for a detailed ROI calculation for your farm.

## How much training is required?

Your staff will be able to operate robots with a few of days' training and Dogtooth offers all the support you need. Robots are operated in teams of 12 with each team the responsibility of a human supervisor.

## Will I still need human workers?

Yes. Although robotic picking dramatically reduces the labour requirement, Dogtooth's aim is to make the workforce more productive, not to replace it. Farm workers are still needed for robot operation, clean-up, crop husbandry, and logistics. These costs are fully modelled in our ROI calculation.

## Are robots safe?

Yes, our robots are fully compliant with CE's Machinery Health & Safety and EMC directives

## What other benefits do robots provide?

Our robots can :

- Provide high quality inspection and packaging capabilities in situ, significantly reducing the overhead cost of quality control;
- Operate overnight, increasing shelf life due to cooler conditions and facilitating multiple shifts at peak harvest;
- Gather crop condition data for yield monitoring and forecasting.