# APP



Precision
Produce
**Packing**

**All day.**
Everyday.

WE GET OUT OF BED EACH MORNING TO DEVELOP AND SEEK OUT THE BEST TECHNOLOGIES TO HELP THE GLOBAL FRESH FRUIT PRODUCE INDUSTRY BE ABLE TO FEED OUR PLANET AS IT PUSHES TOWARD AND PAST 10 BILLION MOUTHS TO FEED.



# From Humble Seeds Good Things **Grow**

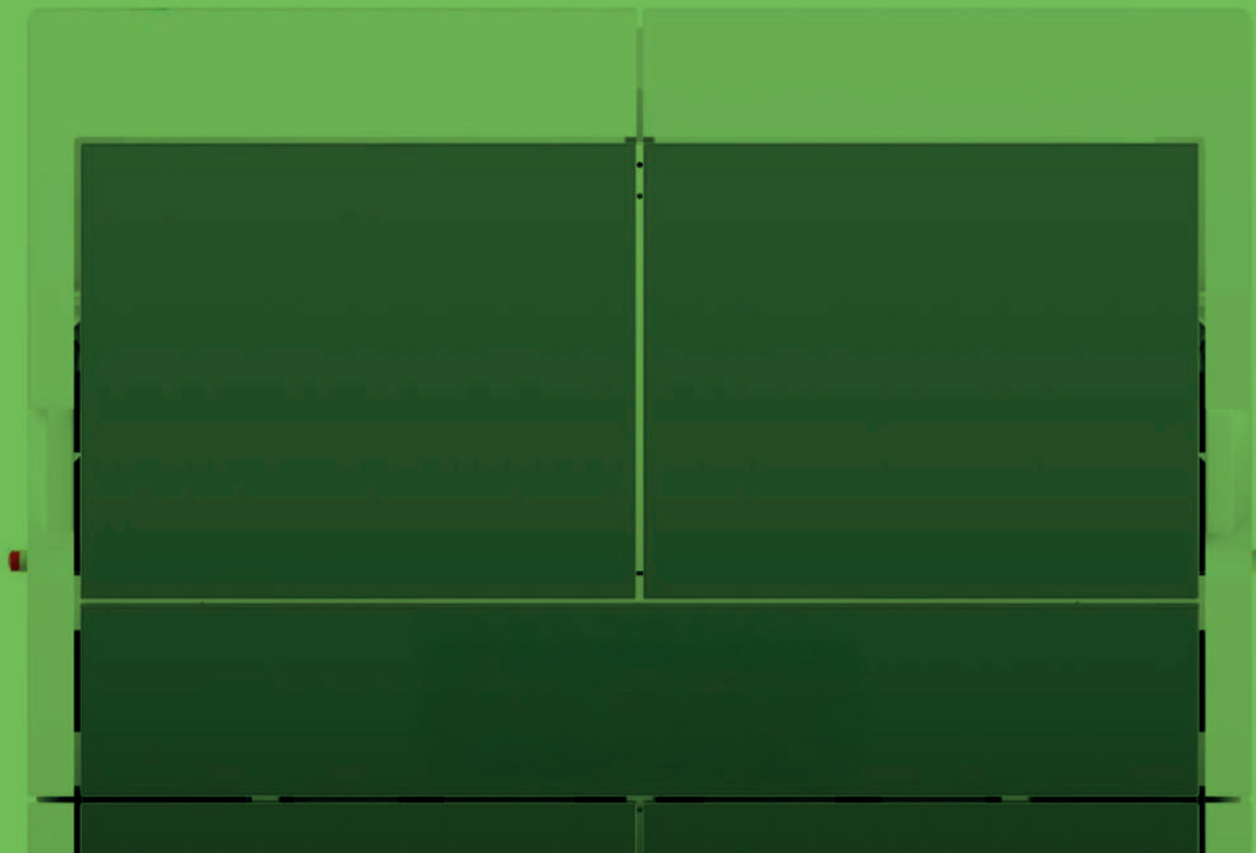
# Our Journey to **Commercialization**

Bringing together an entrepreneurial spirit ingrained in the horticultural sector and a doctorate student out of one of the best agri-science universities in the world gave birth to a company dedicated to developing robotic and automated technologies destined for use in the primary sector globally.

A decade later, and driven by a relentless desire to remove pain points and bottlenecks to the success of the primary sector, the team at Robotics Plus in New Zealand are delivering ground breaking technologies to automate and drive efficiency into the horticulture sector. The APP produce packer is one such technology that is focused on one of the main labor intensive functions of the modern pack house - getting fruit into trays.

After a decade of rigorous field testing the APP produce packer was ready to revolutionize the global produce packing industry.

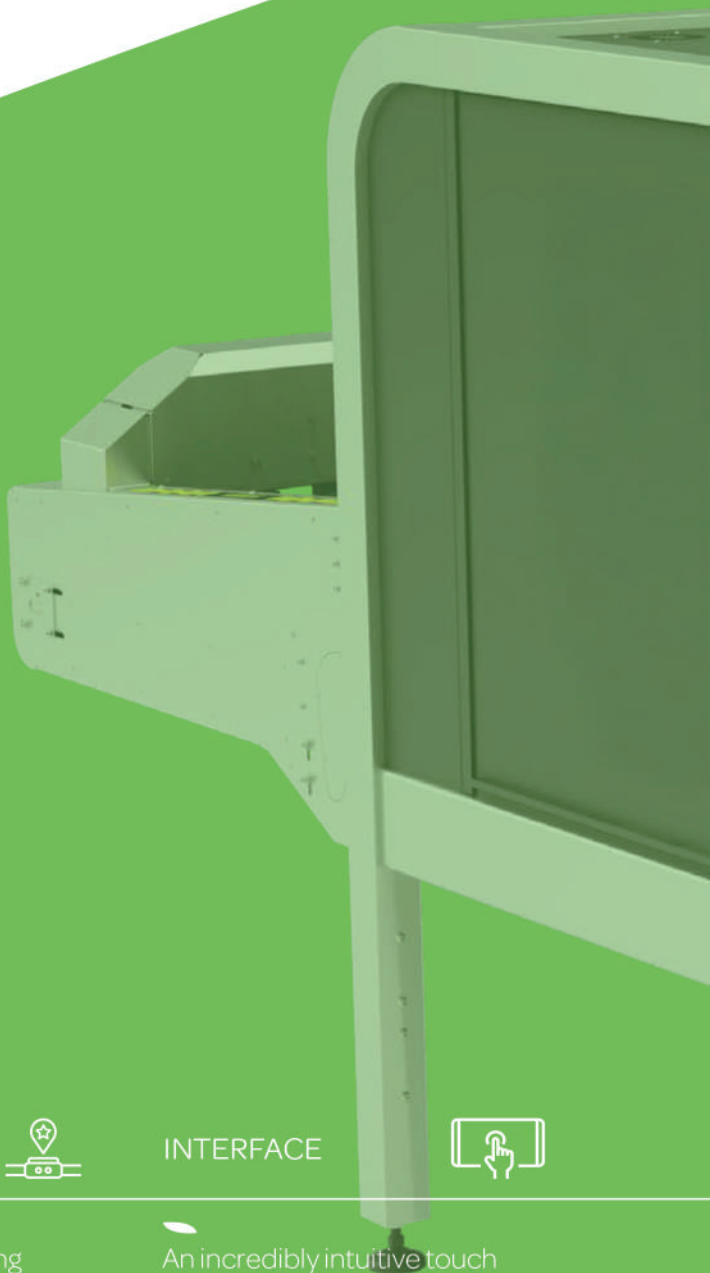
With Robotics Plus' ground breaking technologies with years of expertise in delivering tried and true performance to the sector, with hundreds of installations across the globe and counting.



THE APP PRODUCE PACKER WAS DEVELOPED WITH A FOCUS ON ONE OF THE MOST LABOUR INTENSIVE FUNCTIONS OF THE MODERN PACK HOUSE – GETTING FRUIT INTO TRAYS.

Everything about this machine has been designed with the end user in mind. From its ease of use, rapid deployment and retrofit to existing pack house infrastructure. It is available in configurations for both single and double packing belt pack house layouts.

# APP Produce **Packer**



## AUTOMATED INFEED

Fully automated, vision assisted infeed regulates how much fruit is delivered from the source and manages product spread across the infeed to ensure it is arriving where it is needed to optimise output.

## RETROFIT

At under three meters long and dropping straight over existing pack-line packing belts, the APP is class leading technology.

## INTERFACE

An incredibly intuitive touch screen interface provides pack-line operators with full visibility and easy adjustment depending on current demands.

# key features



## INSTALLATION

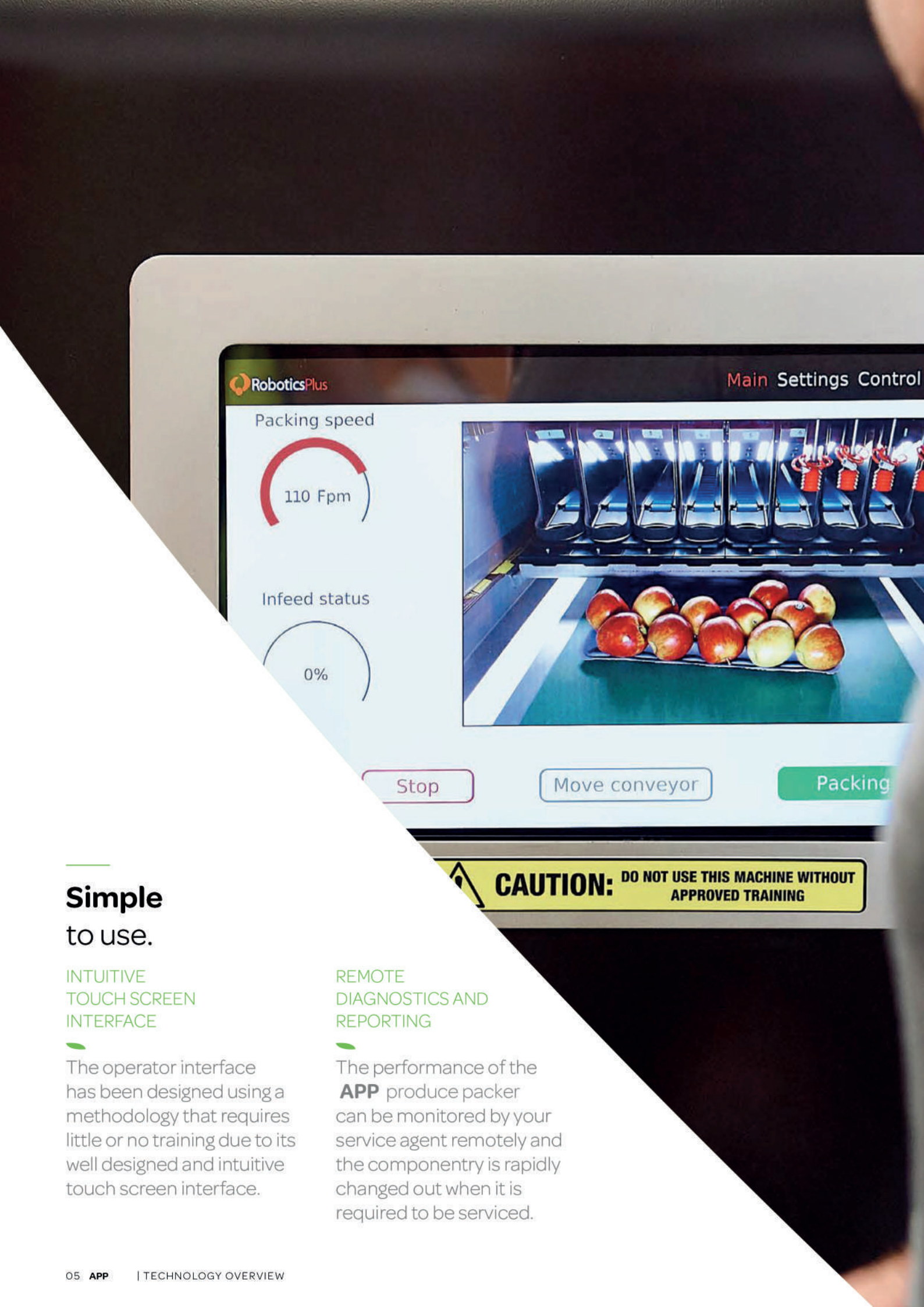
Designed specifically for optimised retrofit across most standard packing belts, straddling the existing conveyor, often retrofitting into position in only a few hours.

## MAINTENANCE

Remotely monitored by your service agent and easily maintained by in-house staff, uptime is maintained at an industry leading benchmark.

## OUTPUT

In optimal conditions the **APP** packer can output up to 120 fruit per minute, per packing belt. When packing larger fruit, the fruit per minute reduces, however the box per minute rate holds true.




## **Simple** to use.

INTUITIVE TOUCH SCREEN INTERFACE

The operator interface has been designed using a methodology that requires little or no training due to its well designed and intuitive touch screen interface.

REMOTE DIAGNOSTICS AND REPORTING

The performance of the **APP** produce packer can be monitored by your service agent remotely and the componentry is rapidly changed out when it is required to be serviced.

# Incredibly Easy and Intuitive to **Operate**

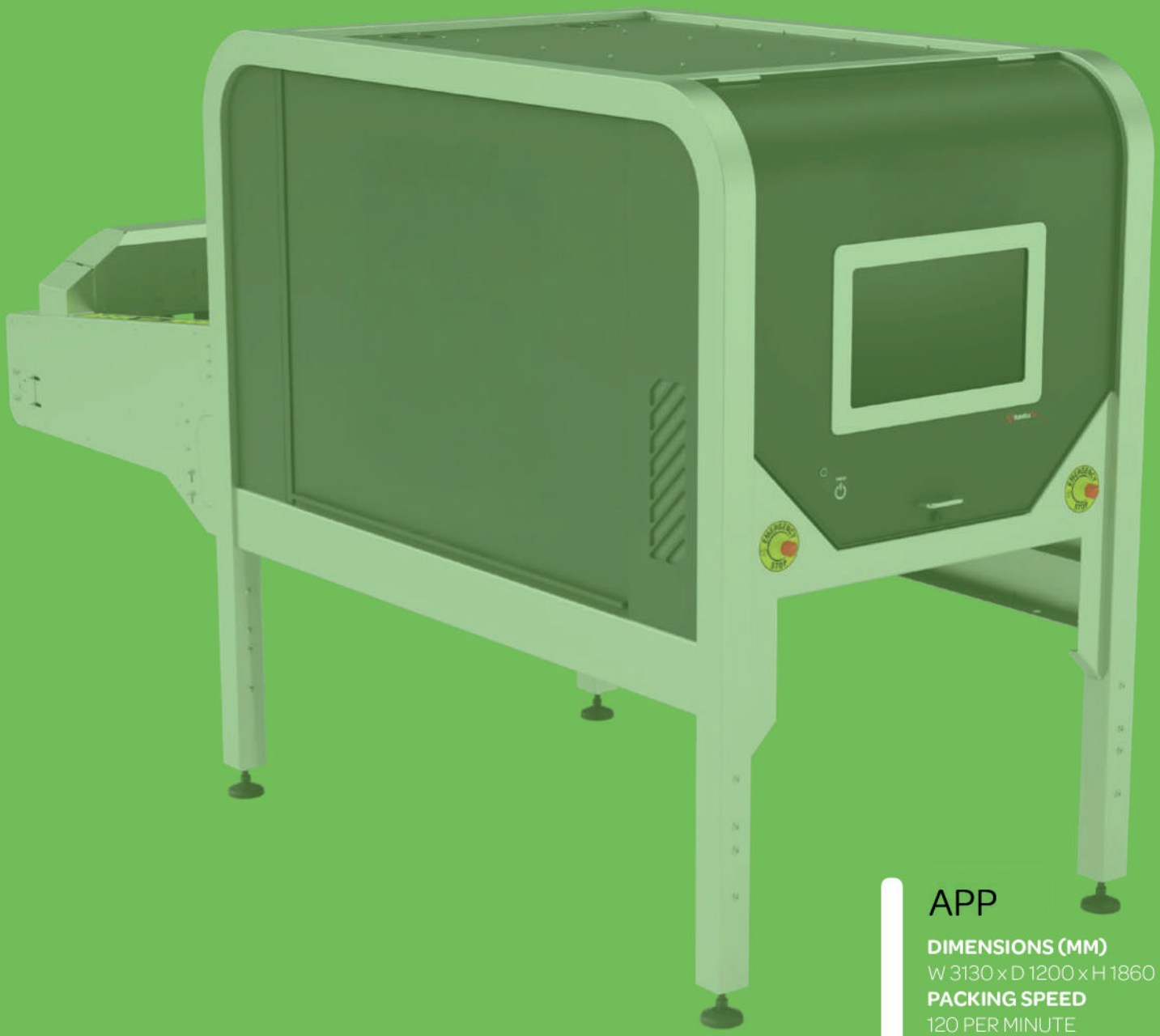
Accompanied with excellent user documentation, the operation of the **APP** produce packer is likened to modern hand held electronic devices. While saving on labor costs has been a significant driver of this technology, its efficiency, consistency and reliability is what is grabbing the industry's attention.



THIS PURPOSE BUILT, MODULAR CELL IS DESIGNED SPECIFICALLY TO PLACE FRUIT INTO TRAYS AND INCLUDES:

A multi-head pick-and-place robot to meet throughput speeds and size variability; apple singulating lanes with inbuilt vision system to get the produce into the correct orientation; automatic tray pocket recognition for any tray type; as well as full control electronics and analysis algorithms to allow for dynamic fruit placement. The APP also uses neural network methodology to learn and adapt to different fruit varieties and continually improve performance over time.

# APP



## APP

**DIMENSIONS (MM)**
W 3130 x D 1200 x H 1860
**PACKING SPEED**
120 PER MINUTE

**Single** take-off pack house layout.

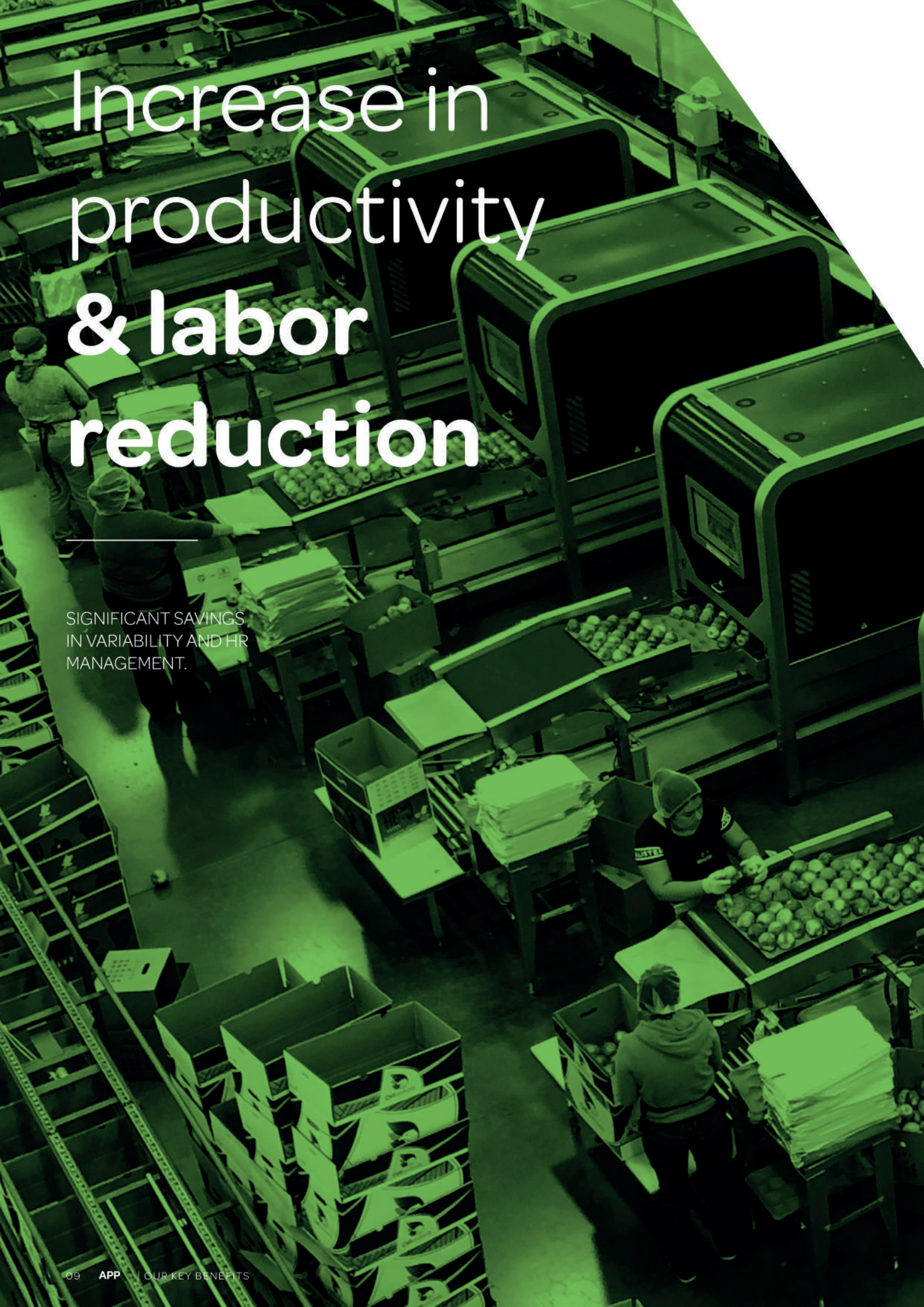
# technical info



## APP II

**DIMENSIONS (MM)**
W 2725 x D 2000 x H 1950
**PACKING SPEED**
320 PER MINUTE

**Double** take-off
pack house layout.



# Increase in productivity **& labor reduction**

SIGNIFICANT SAVINGS IN VARIABILITY AND HR MANAGEMENT.



# 160

FRUITS PER MINUTE, PER PACKING BELT

# one to two

# 1-2

LABOR UNITS SAVED PER PACKING BELT