

aporo™



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 Aporo™ 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 Aporo produce packer was ready to revolutionize the global produce packing industry and Robotics Plus partnered with Global Pac Technologies to do exactly that.

Jenkins Group and Van Doren Sales are market leaders in delivering first rate products and service to the horticulture industry in New Zealand, Australia and North America and came together to form Global Pac Technologies with a shared vision to be a big part of automating horticulture pack lines around the world.

With Robotics Plus' ground breaking technologies and their combined 200 years of expertise in delivering tried and true performance to the sector, this partnership is a perfect match, with hundreds of installations across the globe and counting.

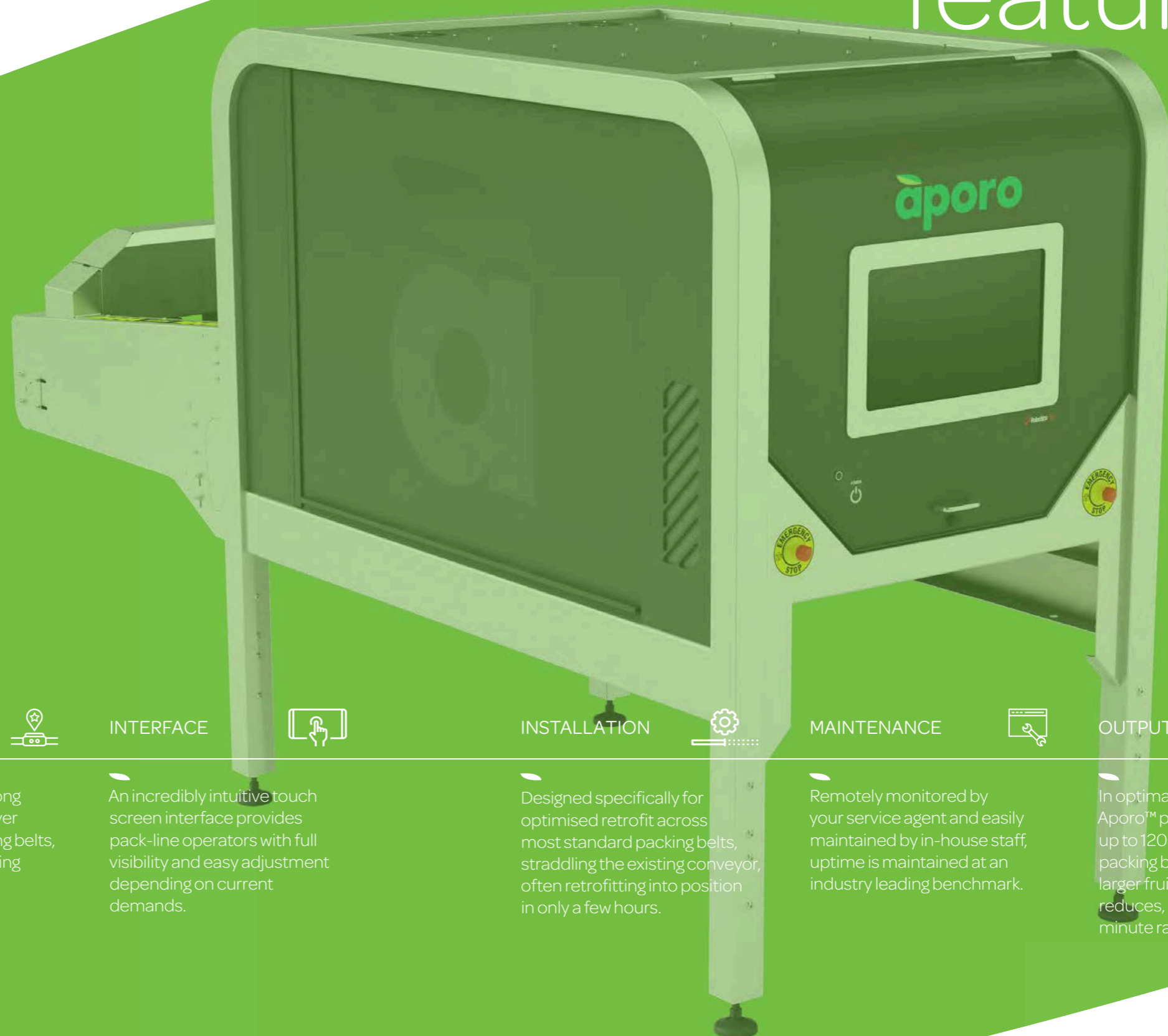


THE APORO™ PRODUCE PACKER WAS DEVELOPED WITH A FOCUS ON ONE OF THE MOST LABOUR INTENSIVE FUNCTIONS OF THE MODERN PACK HOUSE – GETTING FRUIT INTO TRAYS.

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.

key features

Aporo™ 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 Aporo™ 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.

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.

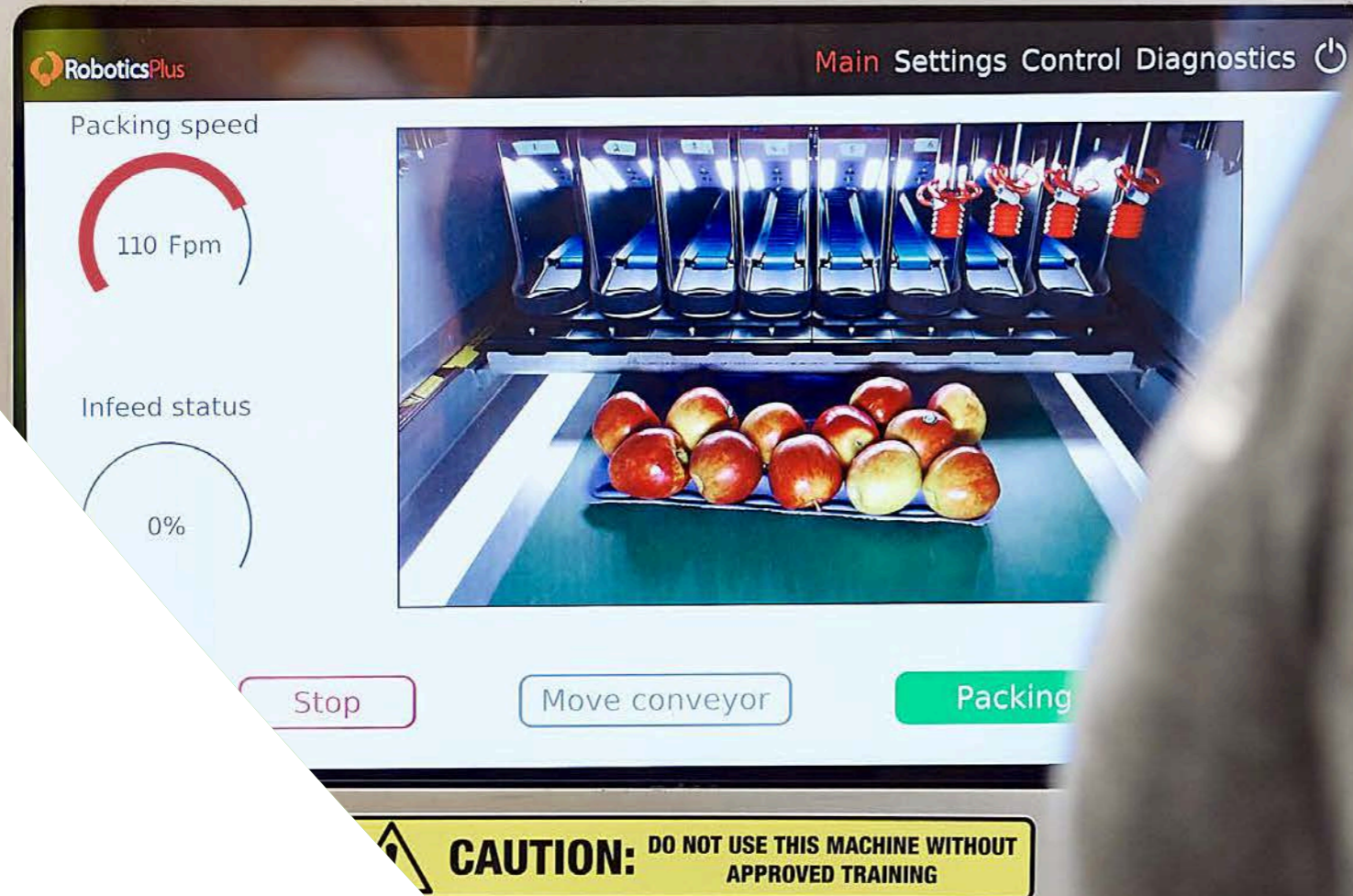
OUTPUT



In optimal conditions the Aporo™ 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.

Incredibly Easy and Intuitive to Operate

Accompanied with excellent user documentation, the operation of the Aporo™ 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.



CAUTION: DO NOT USE THIS MACHINE WITHOUT APPROVED TRAINING

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 Aporo™ produce packer can be monitored by your service agent remotely and the componentry is rapidly changed out when it is required to be serviced.

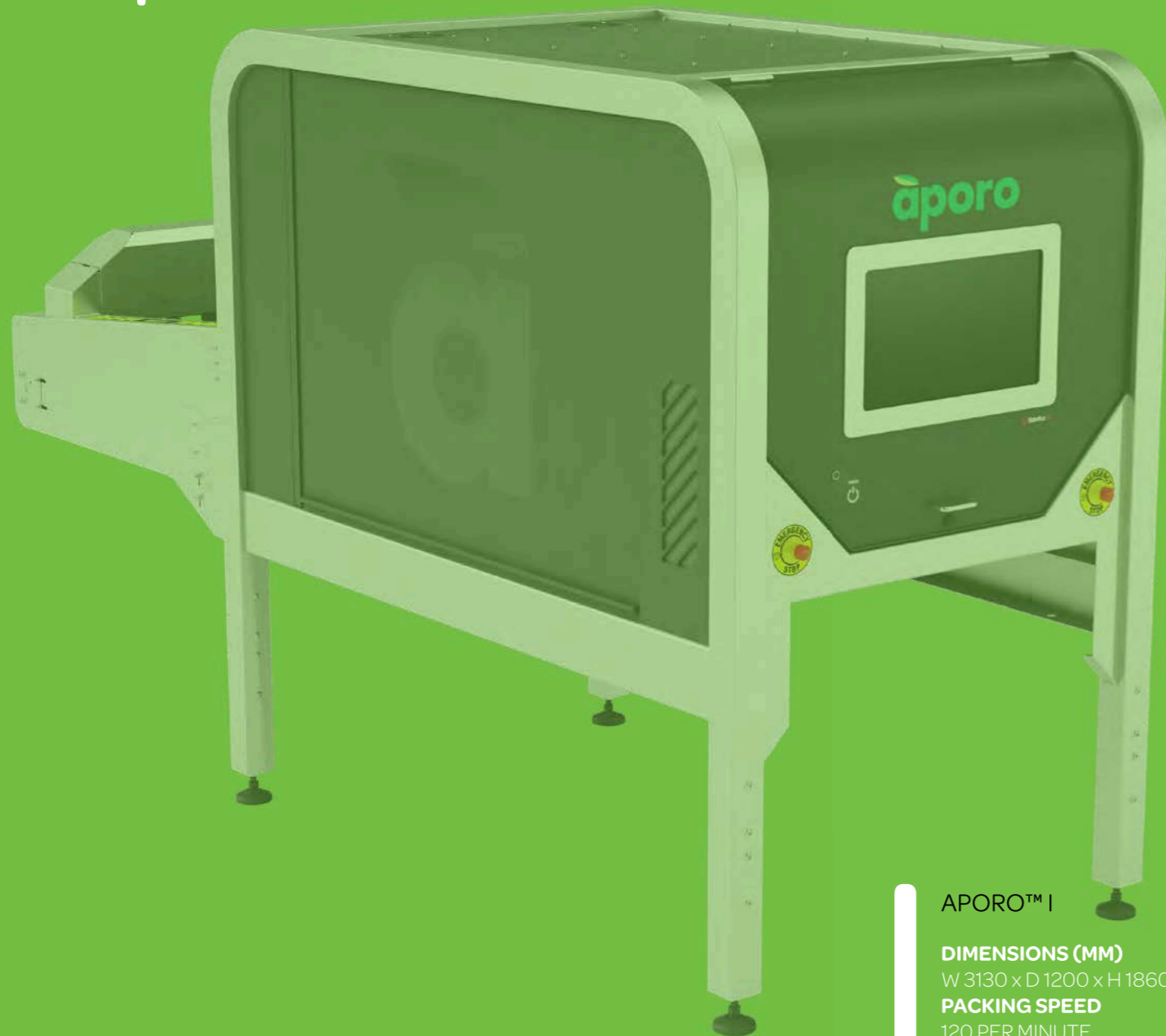
THIS PURPOSE BUILT,
MODULAR CELL IS DESIGNED
SPECIFICALLY TO PLACE FRUIT
INTO TRAYS AND INCLUDES:

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
Aporo also uses neural
network methodology
to learn and adapt to
different fruit varieties
and continually improve
performance over time.

technical info

Aporo™



APORO™ I

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



APORO™ II

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

Single take-off
pack house layout.

Double take-off
pack house layout.



Increase in productivity & labor reduction

SIGNIFICANT SAVINGS IN VARIABILITY AND HR MANAGEMENT.



120

FRUITS PER MINUTE, PER PACKING BELT

one to two

1-2

LABOR UNITS SAVED PER PACKING BELT



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