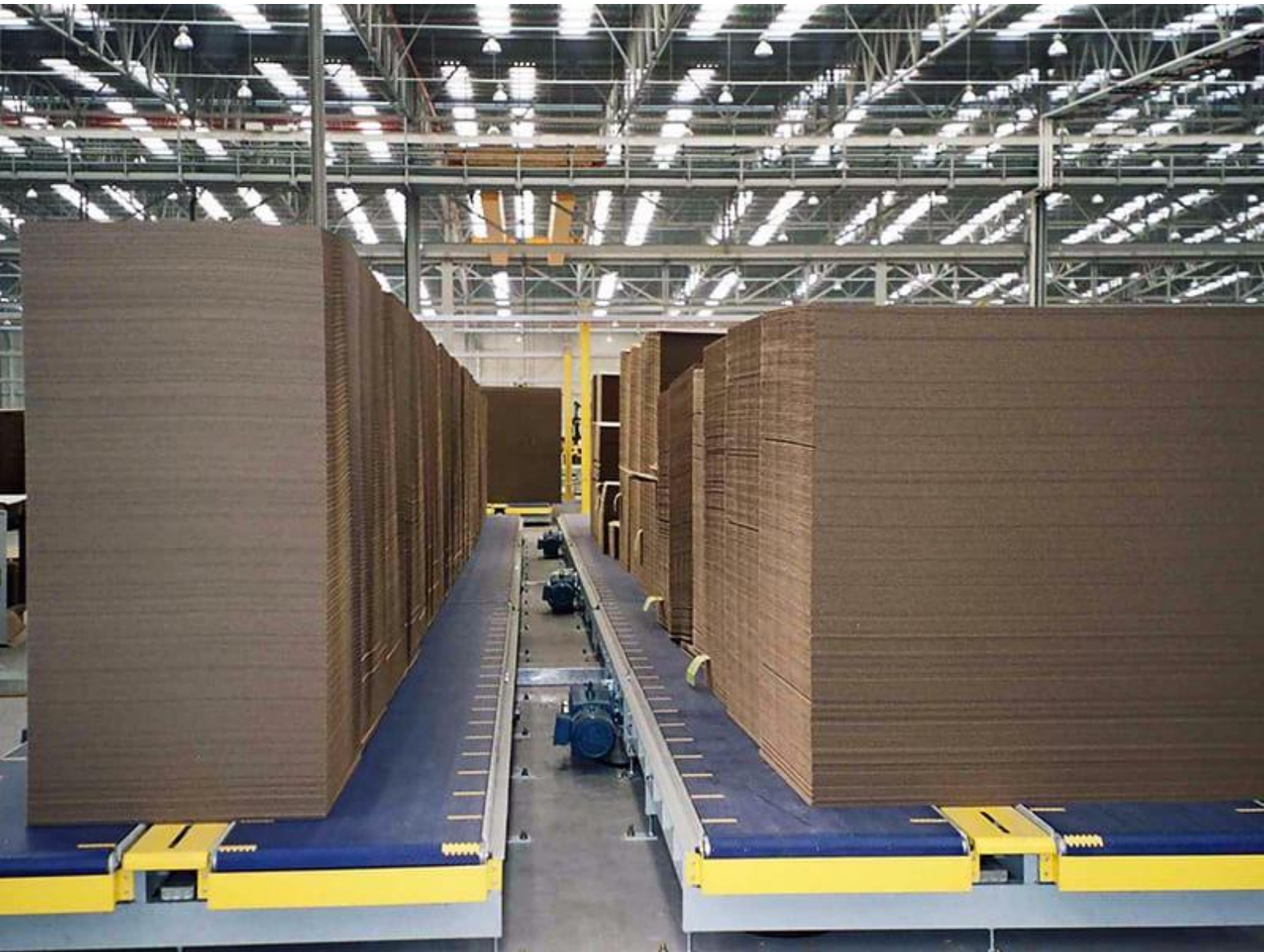


Corrugated Sheet Counter Machine

Model No. R105



Corrugated Cardboard Counter Machine

Model No. R105

■ Introduction

This counter machine is self developed by Hawkvis by adopting advanced industrial CCD camera and intelligent counting algorithms based on deep learning technology.

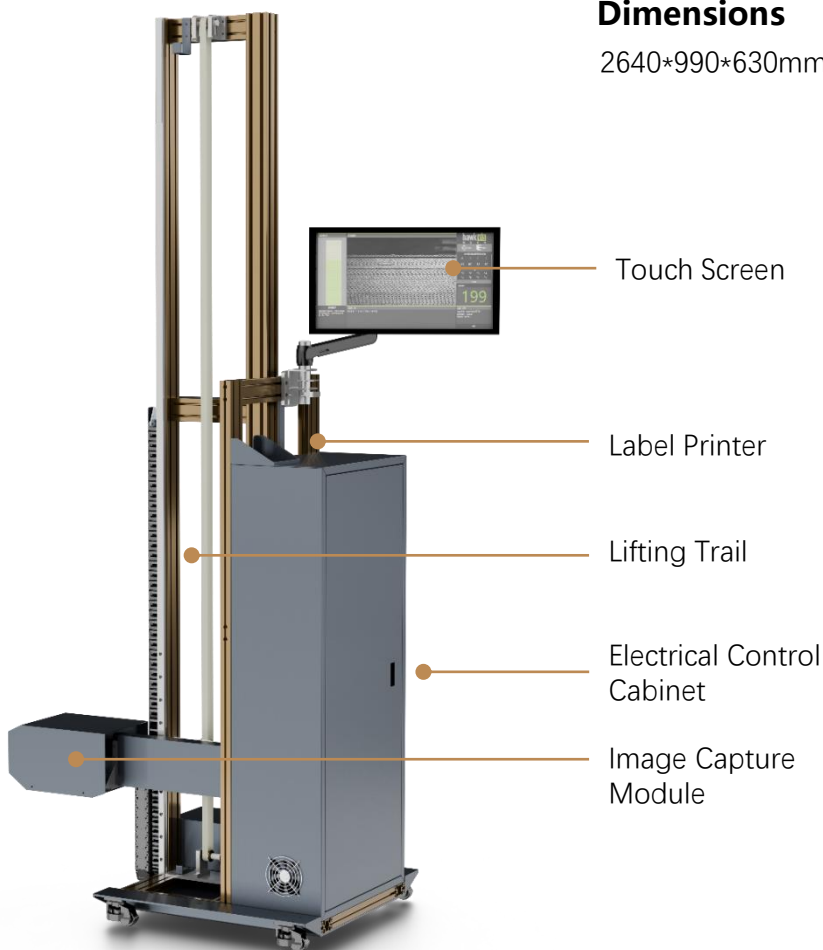
It scans the corrugated side of each stack, recognize the boards and count the numbers fast and accurate.

■ Industry's Pain points

- Corrugated sheet boards are sold by quantity, so accurate number is essential.
- Quantity discrepancy can happen during production, warehousing and transportation which is hard to trace and producers have to bear the loss.
- It is low efficiency and high cost to use human workers to count the numbers of every stack before shipment. Machine counting is a better solution.



■ Machine Appearance



Dimensions

2640*990*630mm

■ Installation Locations

- Board Plant-
at the end of production line



- Box Plant-Warehouse



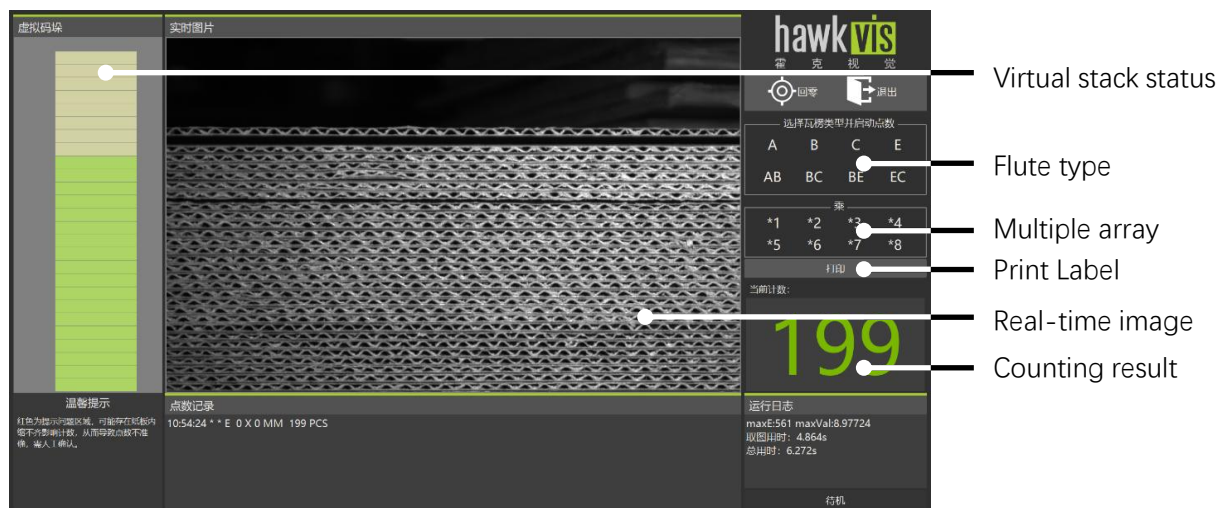
- Board Plant-Shipment dock



Functions and Features

■ System Features

- Smart algorithms, high recognition rate, high counting accuracy.
- Customize the menu of board flute types as per client production.
- Simply press the flute type on touchscreen and it automatically count.
- Multiple-array counting: To count for multiple arrays in same stack.(*depending on stack situation)
- Virtual stack: will show red alarm when system detects any serious misalignment & blocking of flutes.
- Generate counting report for checking and sharing.
- Barcode scanner allows to scan barcode on client P.O. and input relevant information.
- Includes a label printer to print the counting result automatically after each counting.



■ Applicable board types

- The machine can count all typical flutes. Can customize for special flute.
- Only the F&G flutes are too thin, which makes them easily blocked by misalignment and affect the counting accuracy.

Flute/Wall Type	Diagram	Supported?
A-Flute		✓
B-Flute		✓
C-Flute		✓
E-Flute		✓
EB-Flute		✓
BC-Flute		✓
AB-Flute		✓
AAA-Flute		✓
Carton (in development)		✓

Technical Advantages

■ Anti Misalignment

- There are misalignment of boards inevitably. If it is serious, the misalignments will affect the image capture and counting accuracy.
- Hawkvis made improvements on image acquisition and algorithms recognition. As long as the flutes are visible, they are well countable.



■ Anti Damages & Foreign Objects

- There are occasionally damages and foreign objects in the stack side, which affect the counting accuracy.
- Hawkvis adopts large view and multi-search mode, and overcome the interference of damages and foreign objects, and ensure counting accuracy.



■ Main Spec

Item	Parameter
Model No.	R105
Dimension(mm)	2640*990*630
Installation Location	End of production line, shipment dock, warehouse
Maximum stack height (mm)	2300
Focal Length (mm)	400~800
Counting Accuracy	In average >99.7%; For well stacked sheets, ≈ 100%
Cycle time (s)	<12 sec. (for E flute, it is <14 sec.)
Hawkvis Counting software	V1.1
Operation media	Touch screen
Power supply (AC)	AC220V
Rated Power (KW)	3.5
Enclosure material	Stainless steel
Weight (Kg)	70Kg
Work environment	Temperature: -10℃ ~ 40℃, Humidity: 30% ~ 95%

Application Scenes

■ Alongside the conveyor



■ In warehouse





PT Asia Limited Partnership
998 Moo 3, Samrong Nua,
Muang, Samutprakarn 10270
Thailand
Phone: +66 2 759 3605-12
Email: info@ptasia.biz
Website: www.ptasia-group.com