

APEX



AUTOMATION SYSTEM AFTER BAKING

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烘焙生产后段自动化方案

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 AUTOMATIC ONLINE FEEDING SYSTEM FOR BISCUIT SANDWICHING MACHINE	01
饼干夹心机自动喂料系统	
 ROW MULTIPLYING AND COMBINING SYSTEM	02
定量分排及合排系统	
 AUTOMATIC PAPER CUP LOADING SYSTEM FOR COOKIES	03/04
曲奇自动装纸托系统	
 AUTOMATIC TIN LOADING SYSTEM FOR COOKIES	03/04
曲奇自动装罐系统	
 BISCUIT ON-EDGE TRAY LOADER/ TRAYLESS PACKING MACHINE FEEDER	05/06
饼干托盒/无托盒包装自动喂料系统	
 SMART BELT FEEDING SYSTEM	07/08
智能皮带	
 AUTOMATIC ONLINE TRAY LOADING SYSTEM	09
饼干自动下托盒系统	
 AUTOMATIC TRAY LOADING SYSTEM FOR SECONDARY PACKING	10
饼干二次包装下托系统	
 AUTOMATIC TRAY LOADING MACHINE FOR SECONDARY PACKING	11
二次包装下托系统	
 COUNTING & COLLATING SYSTEM FOR SECONDARY PACKING	12
二次包装前数数及整理系统	
 BREAD / CAKE DOUBLE DECK SWITCHOVER COOLING CONVEYOR	13
面包或蛋糕双层切换冷却输送线	
 AUTOMATIC CARTONING SYSTEM	14
自动装箱系统	
 HIGH SPEED CARTONING MACHINE	15/16
自动装盒机	

AUTOMATION SYSTEM AFTER BAKING

烘焙生产后段自动化方案

We specialize in providing various customized solutions to achieve the automation of baked products stacking, sandwiching, chocolate enrobing, cooling, tray loading, various feeding for different packing systems and cartoning .

我们致力于为客户提供烘焙产品生产后段自动化的各种解决方案，根据客户不同生产流程和产品包装的要求，设计并制造烘焙后的自动整理，自动输送至夹心机、巧克力涂层设备或冷却隧道，在线自动入托盒系统，各式包装机自动喂料系统，自动装盒和装箱系统等。

各种自动化系统以显著降低客户生产成本，提高客户生产效率。

AUTOMATIC ONLINE FEEDING SYSTEM FOR BISCUIT SANDWICHING MACHINE



饼干夹心机自动喂料系统

This system rearranges, aligns and stacks biscuits from cooling conveyor to combine biscuits into desired rows and stack biscuits on-edge then feed them onto feeding conveyors of high speed sandwiching machine(s) to achieve online sandwiching.

夹心机饼干自动喂料系统的主要功能是将冷却输送线输送过来的饼干进行一系列的整理，使饼干按所需队列数量归队排列后进入一台或多台夹心机，进行在线夹心。



ROW MULTIPLYING AND COMBINING SYSTEM

01/02

定量分排及合排系统

This system rearranges, aligns and stacks biscuits from cooling conveyor to distribute biscuits quantitatively to realize multiplying or combining the biscuits rows into desired rows and feed them into next process, for example enrober and cooling tunnel or sandwiching machine, etc.

该系统的主要功能是将冷却输送线输送过来的饼干进行一系列的整理。使饼干定量地分排成 和 / 或者合排成所需的排数，输送至下一道工序，比如涂层机和冷却隧道或者夹心机，等等。



AUTOMATIC TIN LOADING SYSTEM FOR COOKIES

曲奇自动装罐系统

This system will work with Automatic Paper Cup Loading System to realize cookies fully automatic packing (paper cup loading and tin loading) after baking.

该系统与曲奇自动下纸托系统一齐联用,实现曲奇自动装纸杯装罐包装。



03/04

AUTOMATIC PAPER CUP LOADING SYSTEM FOR COOKIES

曲奇自动装纸托系统

This system will receive and align cookies after baking and cooling then load into paper cups in desired quantities. The loaded paper cups then can be fed into next packing process like tin loading system automatically.

该系统能自动下纸托并将饼干按照要求的数量自动落到纸托里,然后进入下一道包装工序比如自动装罐。



BISCUIT ON-EDGE TRAY LOADER/ TRAYLESS PACKING MACHINE FEEDER - PIECE COUNTING TYPE

饼干托盒/无托盒包装自动喂料系统-数片式

It is suitable for feeding round, square or rectangle biscuits or sandwiched biscuits in different sizes on-edge to trays or packing machines. It receives biscuits on-face from sandwiching machine or production line, aligns and counts, then loads the biscuits on-edge into trays or packing machine feeding conveyor.



本系统适合将不同尺寸和形状的单片或夹心饼干通过整理排列和计数机构，按设定数量以站立形式成单条装入托盒或者放入无托盒包装机的喂料输送机上。

There are two kinds of feeders for option.
提供两种不同设计以供选择。



BISCUIT ON-EDGE TRAY LOADER/TRAYLESS PACKING MACHINE FEEDER – VOLUMETRIC TYPE

饼干托盒/无托盒包装自动喂料系统 – 定长式

It is suitable for feeding round, square or rectangle biscuits in different sizes on-edge to tray or trayless packing machine. It receives biscuits from production line, aligning and stacking, and loads the biscuits on-edge into trays or trayless packing machine feeding conveyor in desired packing length.



本系统适合将不同尺寸和形状的单片饼干通过整理排列和定长机构，按设定长度以站立形式成单条装入托盒或者放入无托盒包装机的喂料输送机上。



SMART BELT FEEDING SYSTEM

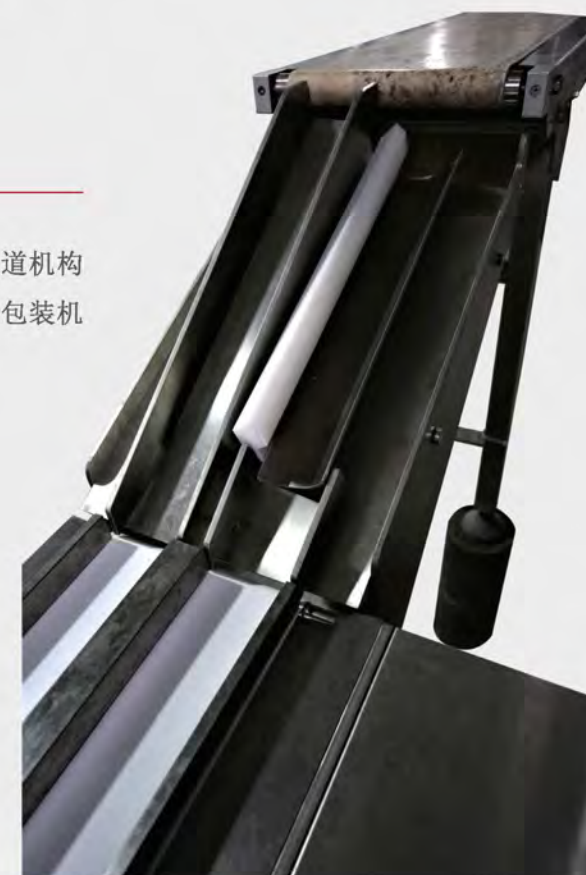
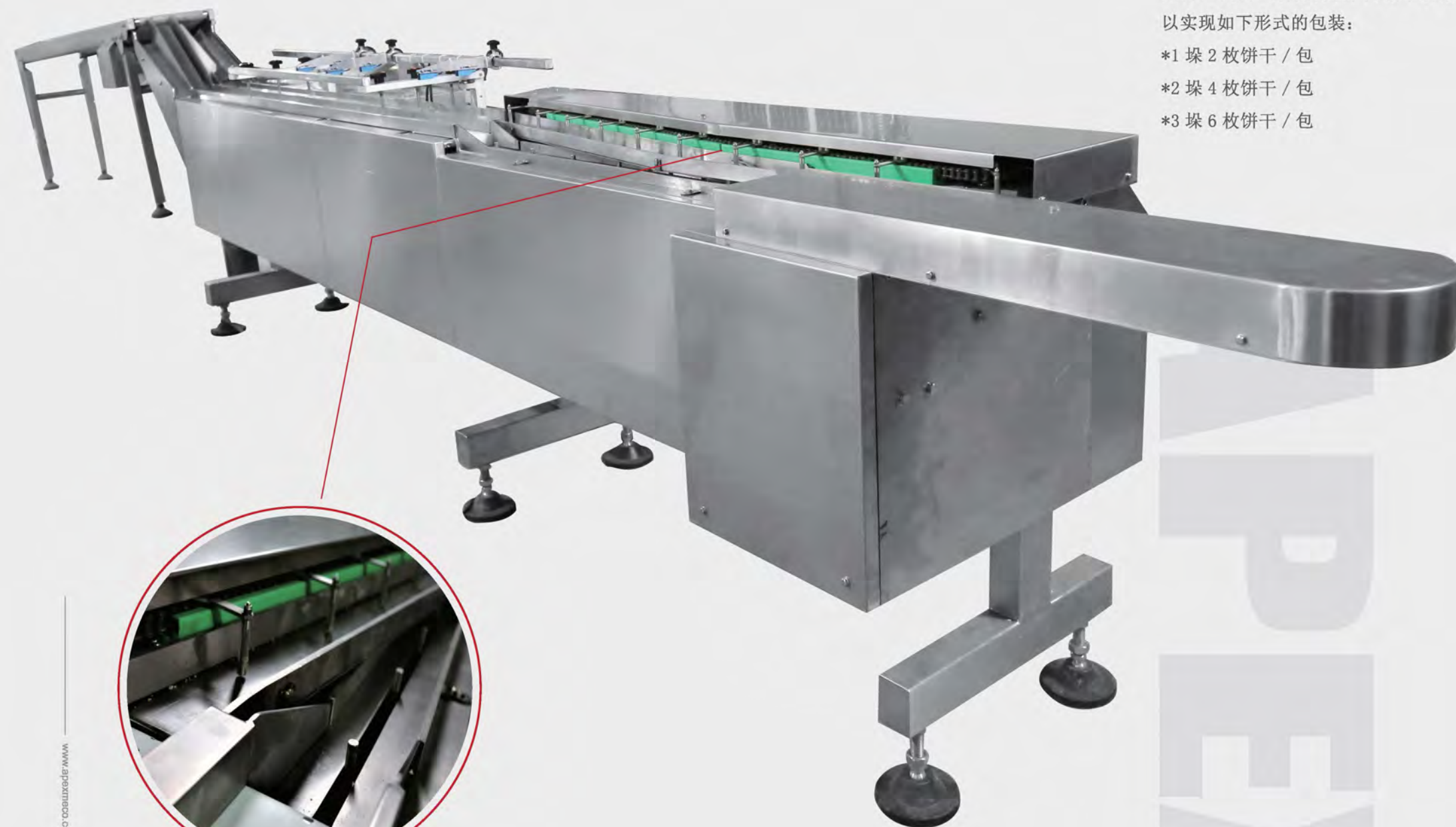
智能皮带

Smart belt can realize automatic flow wrapper feeding. If it is equipped with biscuit turning-over device and row combining device, it can overlap two biscuits bottom to bottom and then feed them into packing machines to realize the following packing mode:

- *1 long x 2 high/ pack
- *2 long x 2 high/ pack
- *3 long x 2 high/ pack

智能皮带能够实现片状包装的自动供料。与饼干翻转和合道机构配合，可以在线将两块饼干底面对底面叠到一起自动进入包装机以实现如下形式的包装：

- *1 垛 2 枚饼干 / 包
- *2 垛 4 枚饼干 / 包
- *3 垛 6 枚饼干 / 包



AUTOMATIC ONLINE TRAY LOADING SYSTEM

饼干自动下托盒系统

This system aligns and stacks the biscuits from cooling conveyor, then feeds the biscuits flat or on-edge into trays according to desired quantity and arrangement. The loaded trays then can be fed into packing machines automatically.

该系统将冷却输送线输送过来的饼干在线进行整理、排序，并按要求的数量和排布方式将饼干落入托盒，并自动将装好的托盒送入包装设备。



AUTOMATIC TRAY LOADING SYSTEM FOR SECONDARY PACKING

09/10

饼干二次包装下托系统

This system is used to transport individual biscuit packages from flow packing machines to secondary packing area, align the packages and then load them into trays for secondary packing in desired quantity.

该系统是把单片包装机出来的产品通过输送带送到二次包装区域，通过一系列的整理，然后按固定数量将小包装下到托盘里以进行二次包装。



AUTOMATIC TRAY LOADING MACHINE FOR SECONDARY PACKING

二次包裝下托系統



This machine receives individual packages from flow packing machine and aligns, counts then loads the packages into tray in desired quantities for secondary packing.

该系统是把单片包装机出来的产品送去作二次包装，通过一系列的整理数数，然后按固定数量将小包装进行二次自动带托包装。



COUNTING & COLLATING SYSTEM FOR SECONDARY PACKING

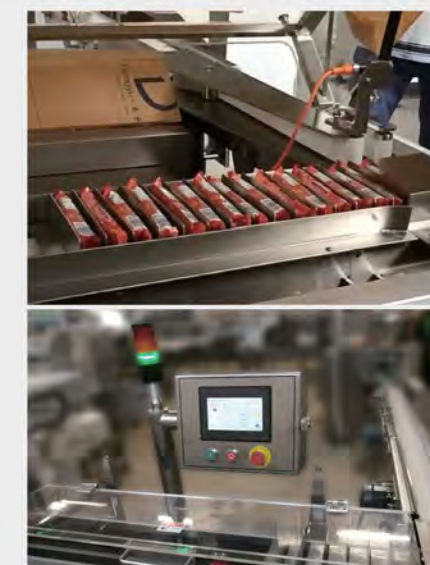
11/12

二次包裝前数数及整理系统



This system is used to transport individual packages from flow packing machines for secondary packing. It will align and load the packages for automatically packing or manually packing in desired quantity with tray or trayless.

该系统是把单片包装机出来的产品送去作二次包装，通过一系列的整理，然后按固定数量将小包装进行二次自动或者手动带托或者不带托包装。



AUTOMATIC CARTONING SYSTEM

自动装箱系统



This system has the function of automatic carton erecting, product aligning, cartoning, and carton sealing. According to features of different products, we are able to provide various suitable cartoning system.

该系统包括产品整理输送, 自动纸箱成型, 自动装箱和封箱等功能。根据不同产品提供各种各样合适的装箱方式。



BREAD / CAKE DOUBLE DECK SWITCHOVER COOLING CONVEYOR

面包或蛋糕双层切换
冷却输送线

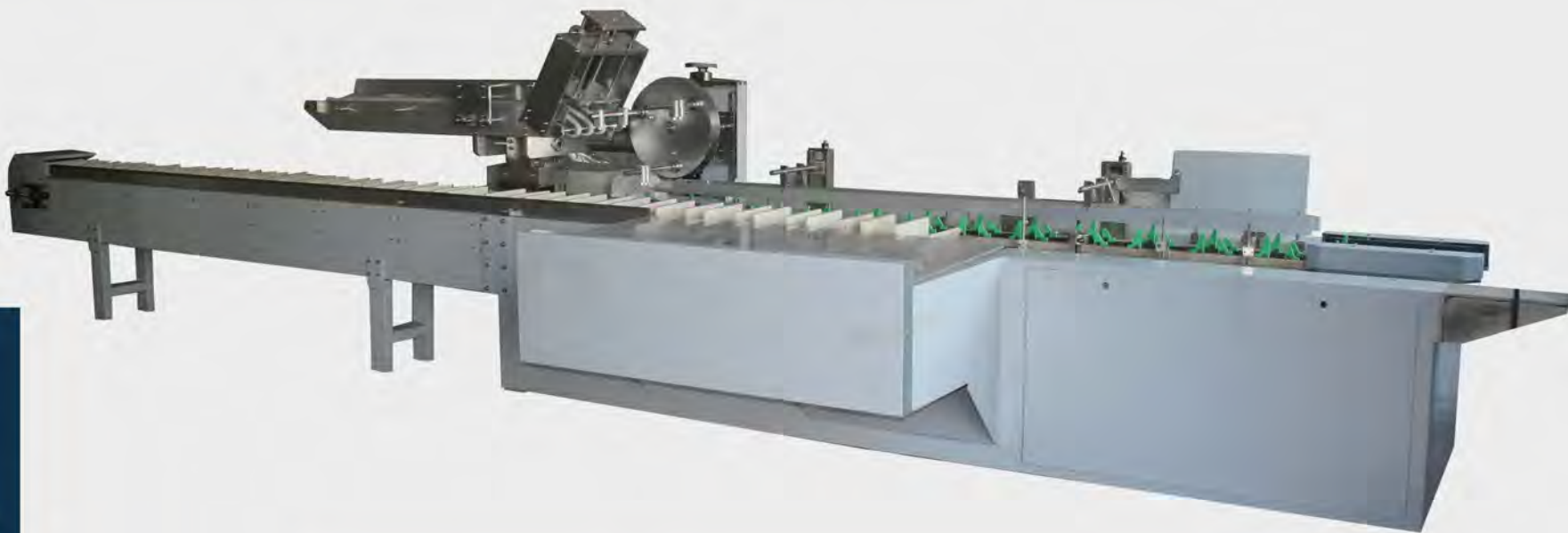
This system is used to cool down bread or cakes from production line. It uses two decks and multi-section conveyor to provide more cooling length and time in limited space.



该系统将面包或蛋糕经过双层交替切换、多段输送带冷却, 提高了冷却效果又节省了空间。

HIGH SPEED CARTONING MACHINE

自动装盒机



Machine's Features:

- 1.HIGH SPEED CARTONING MACHINE is designed for all kinds of products which need to be packed in carton .The whole process is fully automatic, which includes carton feeding, carton filling, flap folding, glue spraying, carton sealing, and finished product discharging. The whole machine uses mechanical transmission system, which features high stability, high accuracy, low noise, easy maintenance and operation.
- 2.Using planetary motion vacuum carton board picking up system, which ensures high picking up speed and stable carton opening. No products no carton picking up.
- 3.10 sets of follow-up type pushing arms ensure the synchronizations of each motion for pushing the products into the carton .
- 4.Large carton board storage capacity, each time can load 2000~3000 cartons board into the hopper.
- 5.Using safety clutch to realize the automatic stop under overload.
- 6.Automatic glue spraying and automatic mechanical date printing.

机器描述

1. 本机器是包括纸盒成型，产品装盒，自动折叠，喷射热熔胶，封合等工序的全自动流水线型纸盒包装机。整机采用机械传动方式，稳定性，准确性高。操作简单，维护方便。
2. 行星式真空取盒，取盒速度快，开盒稳定准确。无产品不取盒。
3. 十组随动式推手保证了产品在输送过程中可靠的入盒。
4. 超大的纸盒料仓：纸盒料仓可一次加盒2000-3000盒。
5. 安全系统：采用安全离合器可实现超负荷运行时自动停机。下盒部分采用光电传感实现无料不下盒。
6. 打码喷胶：全自动喷胶系统和全自动机械打码。

Technical Parameter 技术参数

型 号 Model	ASD-2288
运行速度 Packing Speed	常 速：Standard Speed: 100 Cartons /min 变速范围：Speed Range: 20-150 Cartons /min 最高速度：Max Speed: 150 Cartons /min
纸板格式 Carton Board Specification	W40mm × H40mm~W100mm × H100mm
盒子尺寸 Carton Size	L:105-250mm, W: 50-230mm, H: 30-120mm
压缩空气 Air Compression	压 力 Pressure: 5Kgf/cm ² 耗氣量 Consumption: 640NL/min
喷 胶 Glue Sprayer	NORDSON Brand
外形尺寸 Dimension	L8000mm × W1900mm × H1800mm