

## Know-how in packaging

杭州中意自动化设备有限公司保留对产品外观设计改进与规格型号和参数改变的权利，届时恕不另行通知。

此为广告宣传资料，印刷可能使产品与实物有轻微的区别，中意保留最后解释权。

\* ZY Automation reserves the right of final explanation and revision for the terms.



2020年9月第一版印刷

## 杭州中意自动化设备有限公司

HANGZHOU ZHONGYI AUTOMATION EQUIPMENT CO., LTD

公司地址：中国浙江杭州市下城区石桥路279号 1号楼A座

ADD: Block A, No.1 Building, No. 279 Shiqiao Road, Xiacheng District,  
Hangzhou, China

电话: 0571- 85461601 / 85461602

Tel: +86(571) 85461601 / 85461602

联系人: 李先生 手机: 17706412592 霍先生 手机: 17788582601

Contact person: Allen Cheng Mobile#: (86) 13376814608

传真: 0571-85461610

Fax: +86(571) 85461610

网址: www.zyautomation.com / www.zydh.cn

Email: info@zyautomation.com

## 德清中意自动化设备有限公司

DEQING ZHONGYI AUTOMATION EQUIPMENT CO., LTD

公司地址：浙江湖州市德清禹越工业开发区杭海路186号

ADD: No.186 Hanghai Rd, Yuyue Industry Estate, Huzhou, China

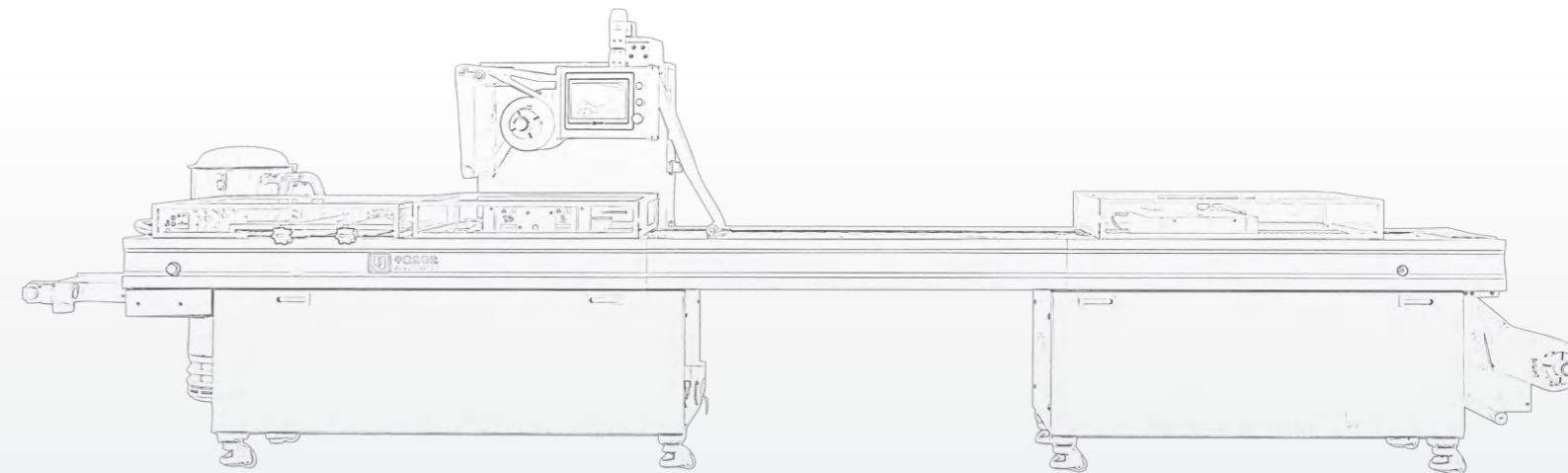
Tel: +0572-8899530/0572-8899531

传真: 0572-8470777-805

Fax: +86(572)847077-805



中意自动化  
ZY AUTOMATION



Packaging solutions for  
medical, food and industrial applications

## 杭州中意自动化设备有限公司

HANGZHOU ZHONGYI AUTOMATION EQUIPMENT CO., LTD

## 德清中意自动化设备有限公司

DEQING ZHONGYI AUTOMATION EQUIPMENT CO., LTD

Official distributor and service partner in North America

ATEN GLOBAL INC

P.O. BOX 7985

Wilmington, DE

19803 USA

Phone: +1 302-803-9493

Fax: +1 302-883-8209

Sales@thinkaten.com

www.thinkaten.com

Official distributor and service partner in India

Greathealth Trexim Pvt Ltd

UG-8 Ashoka Palace,

877 East Park Road,

Karol Bagh,

New Delhi 110 005

Phone: +91-11-2355 7556, 4707 3202

Fax: +91-11-2351 2305

Tiwari@greathealthtrexim.com

www.greathealthtrexim.com



中意自动化  
ZY AUTOMATION

## Our Company 我们的企业

杭州中意自动化设备有限公司是一家专业从事一次性医疗产品和食品包装设备的研究、开发、生产的高新技术企业，一直专注于客户不同的洁净、快速包装的需求，为国内外企业开发研制自动化配套设备，已经拥有多项自主高新技术发明专利。公司现有员工60余人，其中技术人员占总数的40%以上。企业下设杭州包装技术研发中心和德清生产基地(德清中意自动化设备有限公司)。其中生产基地占地面积13亩，标准厂房面积4800多平方米。公司已通过ISO9001质量管理体系认证。

Over 20 years of “know- how in packaging” in every aspect of your project, Hangzhou Zhongyi Automation Equipment Co. (ZY Automation) is an ISO (9001:2015) and CE certified enterprise that provides innovative packaging and processing technologies for the medical and food industries. We specialize in manufacturing equipment for a wide range of industrial applications, including disposable medical instruments and medical dressings, as well as processing equipment for automatic feeding and loading. Our company operates from two facilities in Hangzhou and Deqing, spanning 14 acres in total. We have an established complete quality assurance system to ensure our products are made accurately to your exact specifications and requirements. We also maintain strict safety standards for both our own employees and all equipment we manufacture.



占地面积 **13** 亩  
 厂房面积 **4800** 多平方米  
 员工 **60** 余人  
 技术人员占总数的 **40%** 以上

不求最大、最全，但求精、最专。  
 锐意创新，行业领先。  
 放眼全球，服务全人类。

## Our Promise 我们的承诺

- 尊重您的文化、您的员工和您的需求，更尊重您的选择。
- 信守商业道德，坦诚地告诉您我们能够做到的和我们做不到的。
- 重视与您的沟通和交流，聆听您富有启发性的想法，结合我们的智慧，共同创造和改善我们的产品和服务。
- 铭记肩负关乎生命安全的责任，竭诚为您提供稳定、可靠、安全并具个性化的优质产品。
- 一路与您相伴，为您服务终身。

### Collaboration

To ensure our products meet your requirements, we will make sure to work closely with you to understand and make sure we are meeting your needs throughout the process.

### Safety

We maintain the highest safety measures for our own employees and the equipment we manufacture for you.

### Accuracy

Our comprehensive quality assurance system ensures that our products are made to your exact specifications.

### Competitive Prices

We make every effort to save you money while maintaining quality standards to ensure our products provide you with the best possible value.

### Standing by our Products

We stand behind our products, with each team member taking responsibility for what we produce and sell, as well as addressing your concerns – no matter how big or small. We work hard to be your lifelong trusted partner in your manufacturing needs.



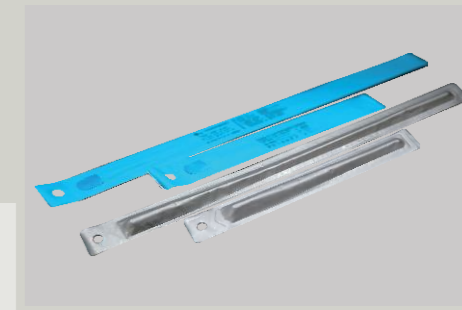


DPXB/B Model Advanced Thermoforming Packaging Machine

**DPXB/B型 泡罩包装机**



◎ 图片中包含了印刷机与喷码机等, 具体配置以合同为准。  
The machine as shown on the photo includes the flexo printer and inkjet printer, the specific configuration is subject to the contract.



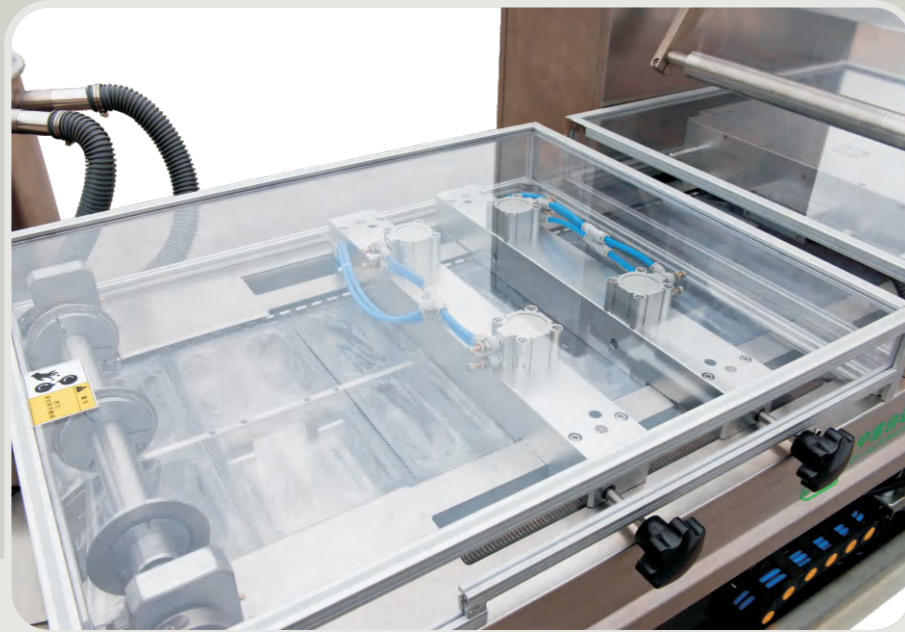
DPXB/B model型是全新设计完善的软膜泡罩包装机, 卫生设计和易于清洁符合GMP要求, CE标准设计, 不锈钢机架和一体化管路, 更易于日常清洁和方便维修保养。B型适用于软膜加热成型封合包装, 是一款基本型设备, 可用于医疗产品一次性无菌包装, 同时也可用于保鲜肉类、海鲜产品等包装。

DPXB/B model advanced thermoforming machine is an entirely new machine design concept. ZY Automation has redesigned every section of our thermoforming machine, to be competent at the strict hygiene and deep cleaning requirements demanded by today's food and medical packaging industry and it conforms to GMP and CE requirements. It's our basic model for flexible film and semi-rigid sealable packaging, which can be used for packing such as disposable sterile medical products and instruments, consumer goods packaging, and meat/seafood packaging.





DPXB/B Model Advanced Thermoforming Packaging Machine  
**DPXB/B型 泡罩包装机**



**性能特点：**

- ⊙ 模块化结构
- ⊙ 侧封板易于开启，易于清洁和维护
- ⊙ 轻量化设计，全机架为不锈钢材质，适应洁净车间使用
- ⊙ 卫生设计
- ⊙ 集合多种切割系统可选（锯齿、滚切、剪切）
- ⊙ 不同的模架升降结构可选
- ⊙ 用于灵活包装设计的切割系统和模具调节
- ⊙ 各管路集成机器内部
- ⊙ 大屏触屏操作界面
- ⊙ 可选择----包装可调深度，真空包装等

**Features:**

- ⊙ Modular construction.
- ⊙ Easy open side guards, accessing to internal components of the machine with removable lateral covers and to be easily cleaned.
- ⊙ Lightweight design, entire stainless steel structure, adaptations for clean rooms.
- ⊙ Hygienic design that repels the accumulation of contamination residue.
- ⊙ Integrated cutting system (perforation/ rotary/ shear cutting as option).
- ⊙ Different types of lifting systems for the tools are available.
- ⊙ Easy adjust the tools and easy change formats.
- ⊙ Minimised use of internal air/cooling water piping and wiring, all built inside.
- ⊙ Large colorful touch screen (HMI).
- ⊙ Optional – adjustable package height and vacuum package and etc.

**技术参数**

驱动：三菱或西门子伺服驱动，高动态，电子控制  
 控制：三菱或西门子PLC，可选不同功能模块  
 控制屏：高分辨10英寸彩色触摸屏带USB接口  
 真空泵：德国生产  
 气动元件：日本 SMC

**Technical Data**

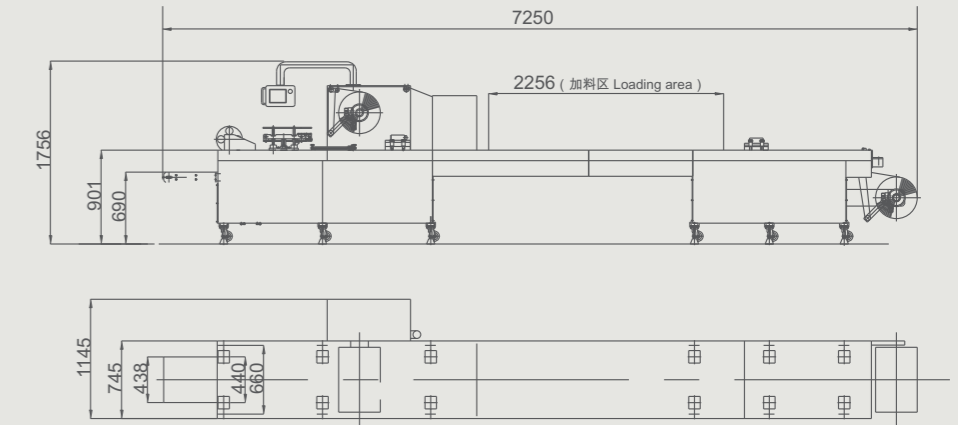
Drive: Mitsubishi or Siemens servo-drive, highly dynamic, electronically controlled  
 Control: PLC Mitsubishi or Siemens with optional functional module  
 Monitor/display: hi-res 10" colour touchscreen with USB interface  
 Vacuum Pump: Made in Germany  
 Pneumatic Component: Japan SMC

**外形尺寸**

长度：7250 mm(可加长或缩短)  
 宽度：1145mm (根据膜宽尺寸)  
 高度：1756 mm (± 35 mm)  
 步进长度：最大可达750 mm  
 拉伸深度：80mm, 最深 130 mm

**Dimensions:**

Length: up to 7250 mm  
 Width: max. 1145 mm (depending on film width)  
 Height: 1756mm (± 35 mm)  
 Repeat Length: up to 750 mm  
 Draw Depth: 80mm, max. 130 mm

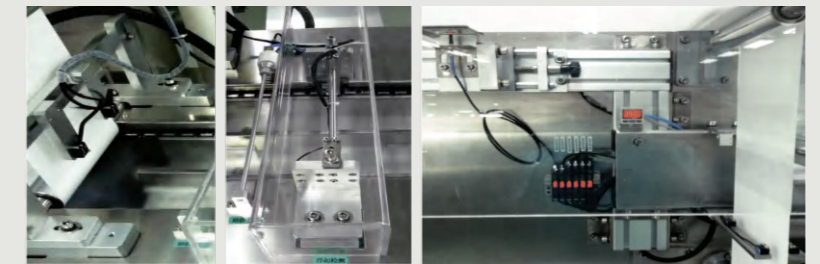


**包装材料和效率**

底膜：拉伸性软膜和半硬膜，宽度范围320-560mm  
 盖膜：可封合膜如PA/PE，医用透析纸和Tyvec.  
 包装效率：最快 20 循环/分钟

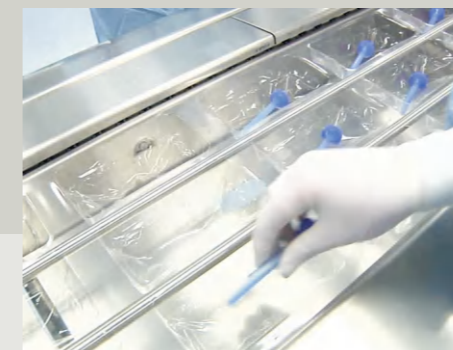
**Packing Material And Capacity**

Bottom Film: Thermoformable And Sealable Flexible And Semi-rigid Film, 320–560 Mm Wide  
 Top Film: Sealable Flexible Film, E.g. Pa/pe, MGP, tyvec  
 Packing Capacity: Up To 20 Cycles/min.



DPXB/C Model Versatile Thermoforming Machine

## DPXB/C型 多功能泡罩包装机



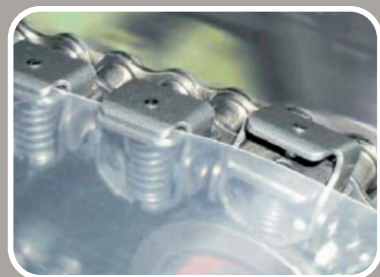
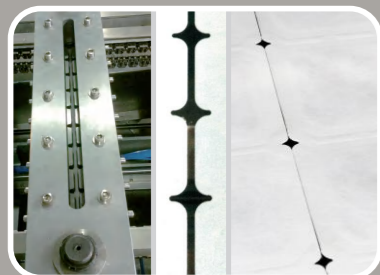
DPXB/C型包装机，同时适用于软膜和硬膜加热成型封合包装，是在B系列基础上扩展功能和应用的一款机型。除具备B系列全部功能外，增加了硬膜的成型、封合、分切等功能。其中横向冲断切机构，实现最终分切下来产品四角为圆角。采用夹子后仰打开方式的精密驱动链，结合独特结构设计的开夹凸轮，确保链条夹持薄膜更平整。一般硬膜包装尺寸较大的产品采用此机型。

DPXB/C Model thermoforming machine is our superior model for flexible or rigid film sealable packaging and extends the functions and applications of our basic B Model. With its solid stainless steel frame construction, this high-performance system will stand up even in the harshest operating conditions. In addition to all the features of the B Model, it equips the functions for rigid packaging especially, featuring a transverse multi-link energizer molding thrust mechanism to create the rigid package with rounded corners; robust backwards open precision gripper chain combined with unique structural design of open folder cam ensures the web is held more flat. The dimensions of this flexible model were made for large formats and high productivity.





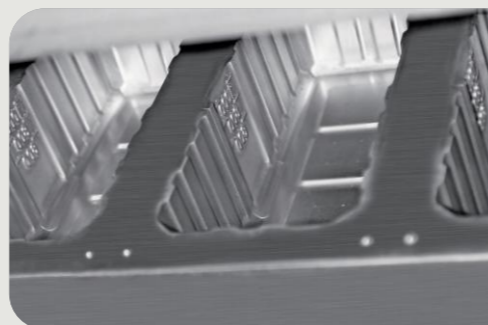
simpler ✓  
faster ✓  
better ✓



- ◎ 精密的模具是生产出完美产品的基础
- ◎ 典型模具最大工作效率可达8~20模/分钟
- ◎ 标准机型包装宽度400mm, 定制可达540mm
- ◎ 标准机型包装长度320mm, 定制可达450mm
- ◎ 标准机型成型深度80mm, 定制可达130mm
- ◎ 可以具备B型包装机的所有功能
- ◎ CE标准生产
  
- ◎ Precision mould for producing the perfect product and package.
- ◎ Max working speed up to 8~20 cycles/ min with standard mould.
- ◎ Standard web film width 400mm and max up to 540mm customized.
- ◎ Standard cut-off length 320mm and max up to 450mm customized.
- ◎ Standard forming depth 80mm and max up to 130 mm customized.
- ◎ Includes all functions of B Model.
- ◎ Designed to meet CE Standards.

**切割产品圆角**  
rounded corners  
by trim strip punch

**后仰式夹膜链**  
robust backwards  
open precision gripper chain



**技术参数**

驱动：三菱或西门子伺服驱动, 高动态, 电子控制  
控制：三菱或西门子PLC, 可选不同功能模块  
控制屏：高分辨10英寸彩色触摸屏带USB接口  
真空泵：德国生产  
气动元件：日本 SMC  
链条：台湾制造或者意大利Regina

**Technical Data**

Drive: Mitsubishi or Siemens servo-drive, highly dynamic, electronically controlled  
Control: PLC Mitsubishi or Siemens with optional functional module  
Monitor/display: hi-res 10"-colour touchscreen with USB interface  
Vacuum Pump: Made in Germany  
Pneumatic Component: Japan SMC  
Chain: Taiwan or Italy Regina gripper chain

**包装材料和效率**

底膜：拉伸性软膜和硬膜, 宽度范围320-560mm  
盖膜：可封合膜如PA/PE, 医用透析纸和Tyvec.  
包装效率：8-20 循环/分钟

**Packing Material And Capacity**

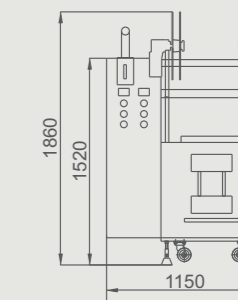
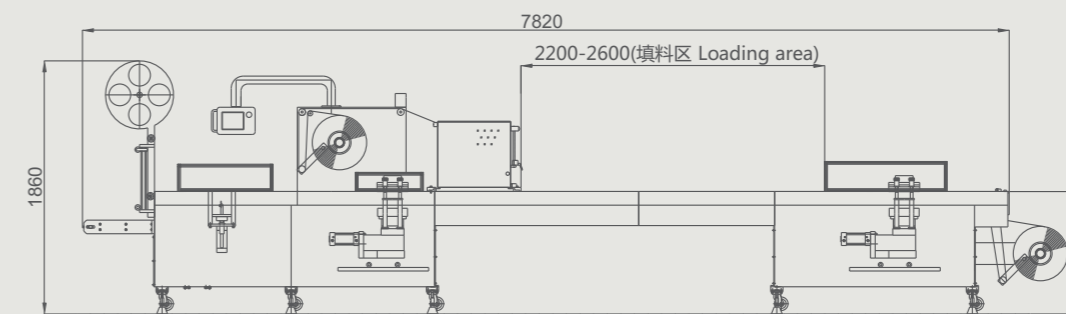
Bottom Film: thermoformable and sealable flexible and rigid film, e. g. PA/PE, A-PET, PVC; 320-560 mm wide sealable flexible film, e.g. PA/PE, MGP, Tyvec  
Top Film:  
Packing Capacity: 8-20 cycles/min.

**选配**

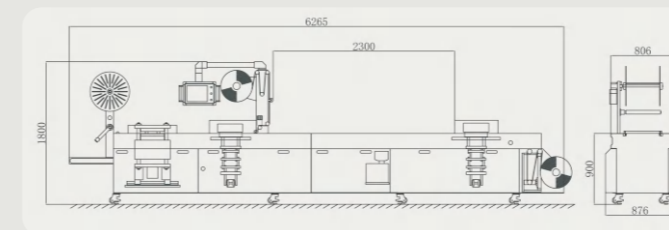
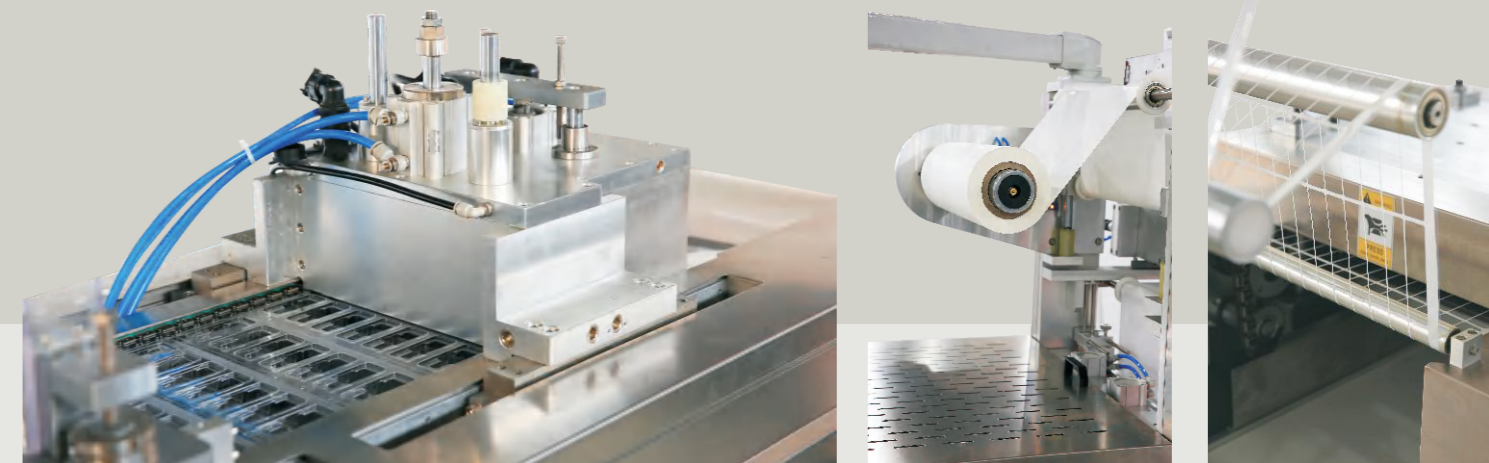
带控制冷却水系统  
可调气含不锈钢储气罐  
气体混合和分析装置  
喷码和贴标系统

**Options**

Autonomous water cooling system  
MAP incl. stainless steel storage tank  
Gas mixing and/or analysis device  
Data printer and/or labelling system



DPXB/H Model Hard Blister Packing Machine  
**DPXB/H型 硬盒泡罩包装机**



- ⊙ 典型模具最大工作效率可达15模/分钟
- ⊙ 标准机型包装宽度250-400mm, 定制可达450mm
- ⊙ 标准机型包装长度达到250mm
- ⊙ 最大成型深度50mm
- ⊙ 整体冲裁模切割
- ⊙ CE标准生产
- ⊙ Max working speed up to 15 cycles/ min with standard die sets & proper packaging materials used
- ⊙ Standard web film width 250-400mm and max up to 450mm customized
- ⊙ Standard Cut-off length up to 250mm
- ⊙ Max forming depth up to 50mm
- ⊙ Complete cut punch by Tandem cutting die
- ⊙ Designed to meet CE Standards

DPXB / H型包装机, 专门用于硬膜加热成型封合包装, 是在C系列基础上改用模切的方式完成一次整体分切的机型。一般适用于硬膜包装尺寸较小、外观精美的产品包装, 如加药注射器、留置针、生物制药等。牵引链夹持输送硬膜, 工作可靠性及连续性高。

DPXB/H hard blister packing machine is specifically designed for rigid film packaging only and constructed in accordance with the requirements of both the medical and pharmaceutical industries. Thanks to modern and user-friendly GMP compliant technology, the H model is ideal for packing glass syringes, I.V cannula, 3-way stopcock, tablets, capsules, caplets, and non-pharmaceutical products. As it is designed in compliance with CE standards for durability and reliability, the machine features a hybrid design, with a servo-driven clip chain and pneumatic tooling. Furthermore, optimal usage of machine time is achieved due to a combination of quick and easy adjustment features for fast changeovers. The stronger gripper chain is solid and suitable for rigid packaging materials to ensure operational reliability and continuity.



### 定制包装形式

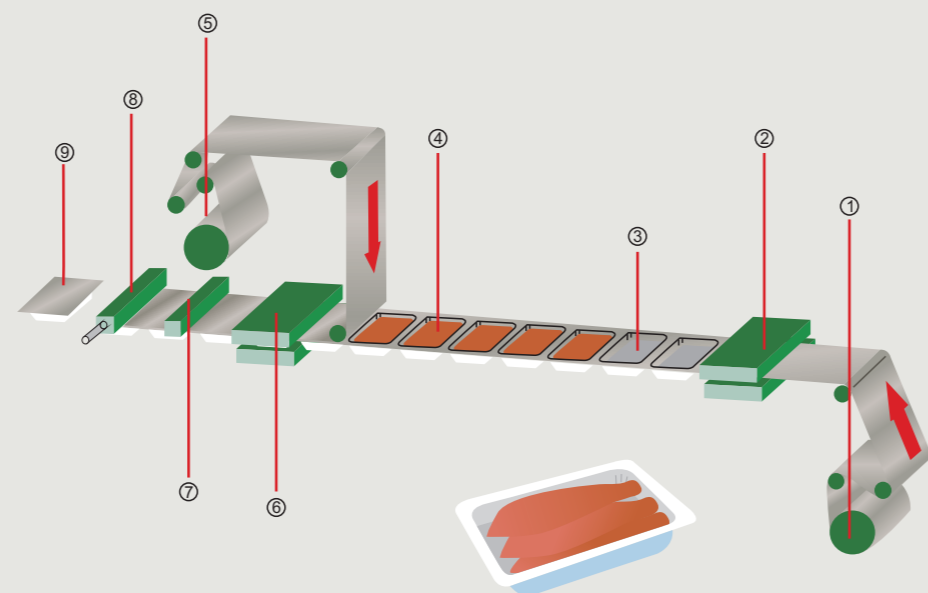
Tailored thermoformed packages

		B model	C model	H model
films 薄膜	PA/PE, Tyvec, MGP PET PVC PE PS	● up to 250 μm	● up to 1200 μm	● up to 1000 μm
standard heating in forming station from top 成型上模加热		●	●	●
simple pre-heating from beneath 成型预下加热		●	●	●
sandwich pre-heating 成型上下加热		● 1X	● 2X	● 2X
plug assist forming 冲头辅助成型		●	●	●
pre-printed top film 预印刷上膜对版光标		●	●	●
stamp-coder 盖章打码		●	●	●
labelling: top film bottom film 贴标机		●	●	—
standard guillotine cut 直线滚压横切		●	●	—
zigzag cut 锯齿横切		●	●	—
cutting punch for round corners 梅花刀圆角冲切		—	●	—
perforation cut 虚线纵切		●	●	—
stripe punch 圆角整条冲切		—	●	—
complete cur, respectively contour cut 整体冲切		—	—	●

● optional — not possible

### 热成型包装工作过程

How the thermoforming process works



- ① 底膜从膜卷开卷
- ② 成型工位底膜加热成型
- ③ 成型泡罩夹持前进
- ④ 产品在填料区放入
- ⑤ 上膜从膜卷开卷
- ⑥ 热合工位可以抽真空, 或者加入可调气体。上下膜加热加压封合。
- ⑦ 横向切包装
- ⑧ 纵向切包装
- ⑨ 包装成品进入输送带

- ① Bottom film is unwound from the roll
- ② In the forming station the bottom film is heating and formed
- ③ The formed package are transported forward
- ④ The package are filled in the filling area
- ⑤ Top web is unwound from the roll
- ⑥ In the sealing area the package is put under vacuum and, if necessary, Modified gases (MAP) are added. The top web is now sealed to the bottom film by heat and pressure
- ⑦ Cross cutting of package occurs
- ⑧ Longitudinal cutting of the package occurs
- ⑨ The finished packages are ready for further transport.

## DPXB/T Model Thermoformed tray machine DPXB/T型 热成型吸塑制盒机

DPXB/T系列热成型吸塑制盒机采用目前领先塑料片材热成型技术。具有高产出, 高品质, 高效益, 低能耗的特点, 采用PLC控制和双伺服驱动, 所有参数可以独立设定调整。膜卷片材宽度可以调节, 适用于不同规格尺寸托盘盒子, 提高材料利用率。清洁设计, 可以在医用净化车间内使用。

DPXB/T series thermoformed tray machine, new generation of vacuum and pressure forming machines, assures the high level of automation and the new control system guarantees (PLC and Dual servo motor) efficiency and supreme performances with all materials. The machine comes in a very wide range of bottom web, this makes it possible to provide the most suitable solution to the various production needs in real mass production. Hygienic design, suitable in Clean Room.



- ◎ 最大制盒尺寸: 390×250×80 mm
- ◎ 效率: 15-30循环/每分钟
- ◎ 最大功率: 8KW
- ◎ 成型方式: 凸模成型, 凹模成型
- ◎ 底膜材料: PVC、PETG、PS、APET等硬片材料, 厚度在1mm内
- ◎ 机器尺寸: L300cm×W80cm×H90cm
- ◎ 重量: 1 ton
- ◎ Max tray size: 390×250×80 mm
- ◎ Speed: 15-30 cycles per min
- ◎ Max power: 8 KW
- ◎ Forming method: Male die forming, Female die forming
- ◎ Bottom web: PVC、PETG、PS、APET etc. (thickness within 1mm)
- ◎ Outer dimension: L300cm×W80cm×H90cm
- ◎ Gross weight: 1 ton



## ZF Series Fully Automatic In-line Straight Tray Sealer ZF系列 全自动连续式直线封口机

ZF系列全自动连续式直线封口机是一款多功能的，全自动的连续式在线托盘封口机，适用于中、大批量生产。它具有多功能性，易用性和可靠性的优势，可以随时适应您的生产要求，并且适用于CT高压注射器注射泵，手术器械和敷料器械包的高质量包装。

设备将人工摆放的托盘通过伺服驱动的托条框自动送入机器，确保托盘可以精准定位并进入封合模具内，坚固的不锈钢框架和高刚性的封合模架及高封合压力闭环设计确保托盘被可靠的封合，并自动完成封合与盖膜卷切割。上膜卷开卷机构确保了盖材的均匀输送，配有光电感应控制印刷医用透析纸或者薄膜的对版。设备可以进行更换托条以适应机器两侧的不同托盘尺寸适应不同产品的包装需求。

ZF series straight tray sealer is a versatile, fully automatic inline tray sealer for medium- and high-volume production. Its versatility, ease of use and reliability are winning factors. It can be adapted to your production requirements at any time and is suitable for high-quality packaging of CT High Pressure Injector syringe pumps, surgical instruments, and dressing kits.

The trays are fed manually into the machine by a servo driven tray-specific gripper unit and positioned and inserted into the sealing station, a strong stainless steel frame construction and a high closing pressure inside the sealing tool ensure that the trays are sealed accurately and securely, then automatically seal and cut the top material. The top web transport ensures even transportation of the sealing materials, and a print mark control can be added to it for processing printed medical grade papers or films. The sealer can be converted to accommodate different tray sizes – from both sides of the machine.

### 选配功能

- ☉ 在线喷码机
- ☉ 在线贴标机

### 技术参数

- ☉ 外形尺寸: L410cmxW100cmxH180cm
- ☉ 最大包装尺寸: 300\*400mm
- ☉ 最大功率: 8KW
- ☉ 效率: > 8模/分钟
- ☉ 工作气压: > 0.6MPA

### Optional equipment

- ☉ In-line inkjet printer
- ☉ In-line labeler

### Technical Data

- ☉ Outer dimensions: L410cmxW100cmxH180cm
- ☉ Max tray size: 300\*400mm
- ☉ Max power: 8KW
- ☉ Working speed: > 8 cycles /min
- ☉ Working air pressure: > 0.6MPA



## PB Series Horizontal Four Side Packaging Machine PB系列 平面包装机

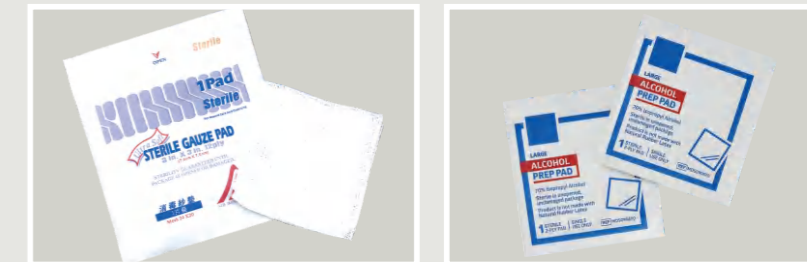
PB系列平面包装机用于四边封包装，包装袋平坦，四面封口，可以提供最多3通道送料。各种易揭封口设计可供选配，锯齿切口。设备接触面都采用不锈钢SUS304材质。

设备特点：

- ☉ 单通道和多通道可选
- ☉ 上下两卷纸膜轴进纸，可选择不同材质结合，可双面印刷。
- ☉ 另可选择特殊易撕封口，常用于医疗器材包装等。

PB series horizontal four side packaging machine produces flat pouches sealed on all four sides using two reels of flexible packaging material. Its distinctive feature is its ability to double or triple its production thanks to its max up to triple track model. Easy open features available include unsealed header peel corner, tear notch or serrated edge. All surface areas contact the products are made of SUS304.

- ☉ Productive in single or multi lane
- ☉ Upper and Lower reels: Twin films could use with different film material (both-sided with printing)
- ☉ Peelable chevron pouch packaging for medical products.



### 技术参数

- ☉ 外形尺寸: L450cmxW105cmxH180cm
- ☉ 通道数: 最多 3 通道
- ☉ 最大功率: 10KW
- ☉ 效率: 100-250mm/秒
- ☉ 工作气压: 大于0.6MPA
- ☉ 包装材料: 涂胶纸、无胶纸、PP/PE、PE等

### Technical Data

- ☉ Outer dimensions: L450cmxW105cmxH180cm
- ☉ Feeding lane: Max 3 lanes
- ☉ Max power: 10KW
- ☉ Working speed: 100-250mm/sec
- ☉ Working air pressure: > 0.6MPA
- ☉ Packaging materials: Coated & Uncoated medical grade paper, PP/PE, PE and etc.

### 可选配

- ☉ 在线滚筒印刷机
- ☉ 喷码打印机

### Optional equipment

- ☉ Rotary flexographic printer
- ☉ In-line inkjet printer

## ZS Series Automatic Needle Loader ZS系列 注射针摆料机



ZS系列注射针摆料机用于在包装机上实现注射针的自动摆放

ZS Series Automatic syringe needle loader designed for automatic syringe needle packing in company with FFS thermoforming machine.

- ◎ 支持单排和双排摆放可选择顺序摆放或颠倒摆放
- ◎ 可选择四排摆放机型
- ◎ 可选择输送带给料型
- ◎ 双排顺序摆放最大生产效率>24排/分钟
- ◎ Capable of either single or double row placing (with either order or reverse direction placement possible)
- ◎ Four rows loading is available as optional.
- ◎ Optional feeding by convey belt is available.
- ◎ Max working speed > 24 rows/min.



## QS Series Automatic Syringe Loader QS系列 注射器摆料机



与组装机连线  
Connect with assembling machine

配套离心机及提升机  
Assort with hopper and centrifugal tank



机械夹持方式  
Pick up&down by mechanical clamping



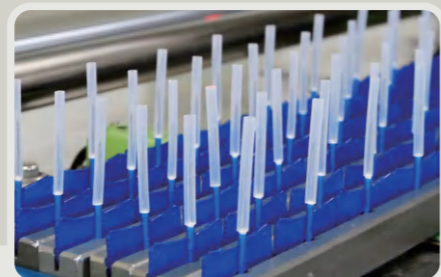
QS系列注射器摆料机用于注射器的自动包装可实现单排或双排摆料, 双排摆料可实现顺序或颠倒摆放, 多探头检测, 储料区设计, 工作流畅、稳定. 可对摆放的产品计数, 确保每一模都不会缺料. 可满足各种规格注射器的摆放要求. 最快每分钟可摆放34排注射器。

QS Series automatic syringe loader is designed for automatic syringe packing with FFS thermoforming machine, capable of either single or double row placing (with either order or reverse direction placement possible). With multiple detecting, storage design, accounting device and etc. to ensure no empty cavity in each cycle and working is fluent and stable. Max working speed is 17 cycles/ min ( 34 rows per min).



Automatic assembly production line

## 全自动组装生产线



上针  
Input cannula



上胶、搓针对向  
EPOXY bonding、Cannula adjust



针头视觉检测  
Cannula vision inspection



上护套  
Input cap



烘箱出料  
EPOXY oven

组装生产线具有自动上针座、自动上针、自动点胶, 自动搓针对向(输液针)、自动烘干冷却、自动检堵、自动硅化、在线自动视觉检测(偏针、倒插针、平头针), 自动剔除并报警, 自动上护套, 自动下料等工位。可根据客户的需求增减不同功能的工位。

The assembly production line is designed for assembling single or double-wing infusion needle or hypodermic needle, the complete working processes are including hub input, hub direction adjust, hub press, corona zation, input cannula, cannula adjust, direction adjust, EPOXY bonding, EPOXY oven, vision inspection, needle block inspection, cannula silicon coating, error goods ejection, input cap, cap press, finish eject, parts feeder. It's available to customize various functional station to meet customer's requirements.

### 双翼片输液针组装生产线

- ◎ 每条工装夹具条可同时装配16支输液针
- ◎ 设备工作节拍5s-6s/每根工装条
- ◎ 产量: 9000-10000枚/每小时

Double wing infusion needle assembly production line

- ◎ Each jig is with 16 pin.
- ◎ 1 Step: 5-6 sec.
- ◎ Capacity: MIN -9,000EA/h, MAX 10,000EA/h.

### 单翼片输液针组装生产线

- ◎ 每条工装夹具条可同时装配30支输液针
- ◎ 设备工作节拍5s-6s/每根工装条
- ◎ 产量: 18000-21000枚/每小时

Single wing infusion needle assembly production line

- ◎ Each jig is with 30 pin.
- ◎ 1 Step: 5-6 sec.
- ◎ Capacity: MIN -18,000EA/h, MAX 21,000EA/h.

### 注射针组装生产线

- ◎ 每条工装夹具条可同时装配50支输液针
- ◎ 设备工作节拍5s-6s/每根工装条
- ◎ 产量: 30000-40000枚/每小时

Hypodermic needle assembly production line

- ◎ Each jig is with 50 pin.
- ◎ 1 Step: 5-6 sec.
- ◎ Capacity: MIN -30,000EA/h, MAX 40,000EA/h.

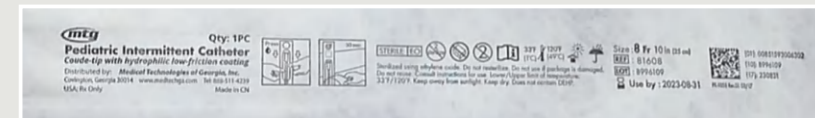
## GRYF Series Flexographic Rotary Printer **GRYF系列 滚筒式柔版印刷机**

GRYF系列滚筒式柔版印刷机是目前国内领先技术与包装机配套的在线印刷机, 尤其适用于在Tyvek®纸和医用透析纸上单色印刷, 具有大色块印刷清晰、饱满, 印刷效率高并且可印刷大长度的导管类产品的优点。其体积小可以与不同的泡罩包装机联机工作, 提供低成本的印刷解决方案。



GRY Series flexographic rotary printers are the latest state of the art, high quality flexographic printers for in-line printing directly onto the package. These printers provide high resolution single color printing on TYVEK™ and other medical grade paper. This printer features the smallest foot print in the industry and is easily retrofitted on all horizontal form/fill/seal packaging machines. The unique drive system eliminates clutches and offers a most precise registration that also helps reduce stress on package seals. The GRY flexographic rotary printer offers the lower cost as per impression solution to your printing needs.

- ◎ 最大印刷宽度: 440-540mm
- ◎ 最大印刷长度: 600mm
- ◎ 最大工作效率: 18 cycles/min
- ◎ 产品功率: 220VAC/2 KW
- ◎ 外形尺寸: L120cm×W56cm×H56cm
- ◎ 重量: 120Kgs
- ◎ Print Width (Across Web): 440-540mm
- ◎ Print Length (Index): 600mm
- ◎ Maximum working cycle: 18 cycles/min
- ◎ Equipment power: 220VAC/2 KW
- ◎ Overall dimension: L120cm×W56cm×H56cm
- ◎ Weight: 120Kgs



## GRYF Series Dual-Color Flexographic Rotary Printer **GRYFS系列 双色滚筒式柔版印刷机**

GRYFS 系列双色滚筒式柔版印刷机是目前国内领先技术结合柔版印刷技术和简洁的双滚筒印刷设计的在线印刷机, 采用在承印辊轴两侧各布置一个印刷滚筒的结构设计, 实现双色印刷。尤其适用于在Tyvek®纸和医用透析纸上双色印刷, 具有结构紧凑、操作方便、版面套准精确、即时纠偏等优点; 同时兼具大色块印刷清晰、饱满, 印刷效率高并且可印刷大长度的导管类产品的优点。可以与不同的泡罩包装机联机工作, 提供较低成本的在线双色印刷解决方案。



GRYFS Series dual-color flexographic rotary printer combines the leading tech of rotary print quality with the simplicity and design of dual printing rollers for in-line printing directly onto the package. The structural design of one adapting printing roller on each side of the printing roller is adopted to achieve dual-color printing. These printers provide high resolution dual color printing on TYVEK™ and other medical grade paper. The innovative design has resulted in the smaller foot print in the industry, easy operation, precise two color alignment, intime correction, which is also easily retrofitted on all horizontal form/fill/seal packaging machines. The GRYFS dual-color flexographic rotary printer offers the lower cost as per dual-color solution to your printing needs.

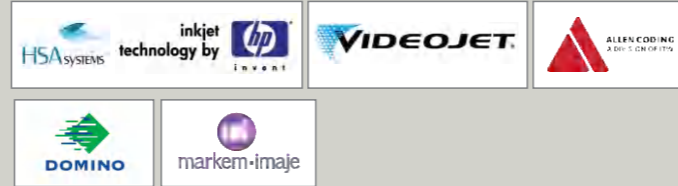
- ◎ 最大印刷宽度: 440mm
- ◎ 最大印刷长度: 单色600mm, 双色400mm
- ◎ 最大工作效率: 12 cycles/min
- ◎ 产品功率: 220VAC/3KW
- ◎ 外形尺寸: L120cm×W81cm×H77cm
- ◎ 重量: 170Kgs
- ◎ Print Width (Across Web): 440mm
- ◎ Print Length (Index): Single color 600mm, Dual color 400mm
- ◎ Maximum working cycle: 12 cycles/min
- ◎ Equipment power: 220VAC/3KW
- ◎ Overall dimension: L120cm×W81cm×H77cm
- ◎ Weight: 170Kgs



### Customized Inline Data printing & Labeler System

## 定制在线喷码打印和贴标系统

Powered by:



#### HP Thermal Inkjet Printing HP 热发泡喷墨打印

HSAJET® 控制器结合与HP惠普热发泡喷墨技术提供了高质量的打印效果。HP惠普热发泡喷墨打印机操作简单, 维护方便, 而且非常洁净, 高效。由于成本低, 可靠, 快速的产品特点, 在医疗和药品行业中广泛应用。

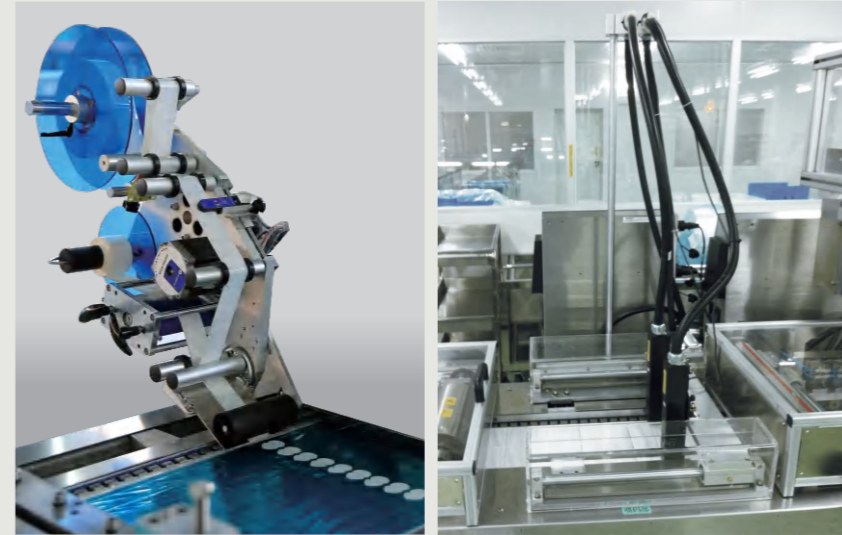
HSAJET® controllers in combination with HP thermal inkjet technology give a high print quality. HP thermal inkjet printers require very little maintenance and are very clean and efficient. They are cost-effective, reliable and fast, which leaves them in high-demand from the medical & pharmaceutical industry.



定制喷头驱动系统  
Customized Driven System For Print Head



喷码在线视觉检测  
In-line Vision Inspection Of Printing



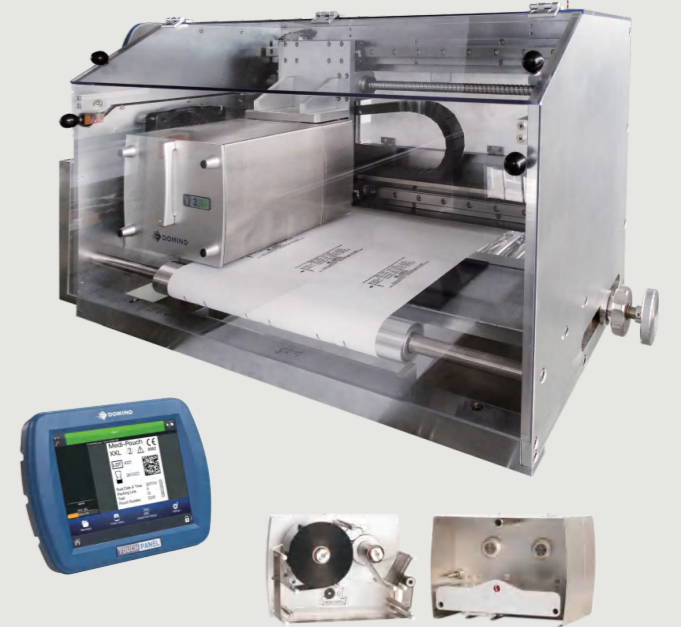
在线贴标机  
In-line Labeler



#### Continuous Inkjet Printing & Coding 连续式喷墨打印和打码

在过去的30年连续式喷墨技术已成为超过90%打码应用的标准解决方案, 因为它安装简单, 并且能够几乎在任何表面上打印。

Over the last 30 years continuous inkjet technology has become the standard solution in more than 90% of coding application. It is chosen because it is simple to install and extremely versatile being able to print on virtually any surface.



#### Thermal Transfer Printing 热转移打印

热转印打印机可以在300dpi分辨率下在软包装薄膜、医用透析纸和Tyvec和标签上印刷可变数据, 条形码和图像, 在食品, 医药和工业部门制造和包装行业广泛应用。

Thermal Transfer printer can print variable data, bar codes and images at 300dpi quality onto flexible packaging films/MGP/Tyvec for a wide range of manufacturing and packaging applications in the food, pharmaceutical and industrial sectors.

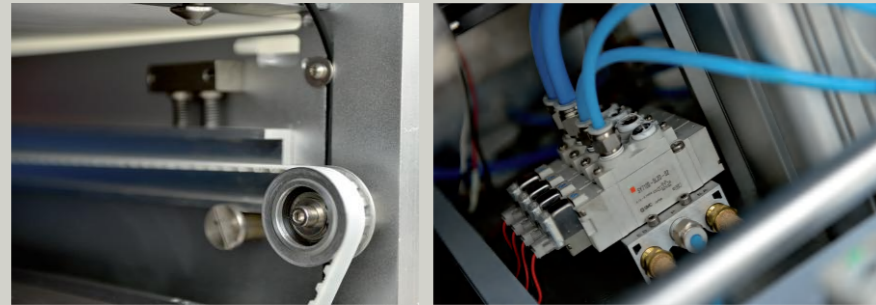
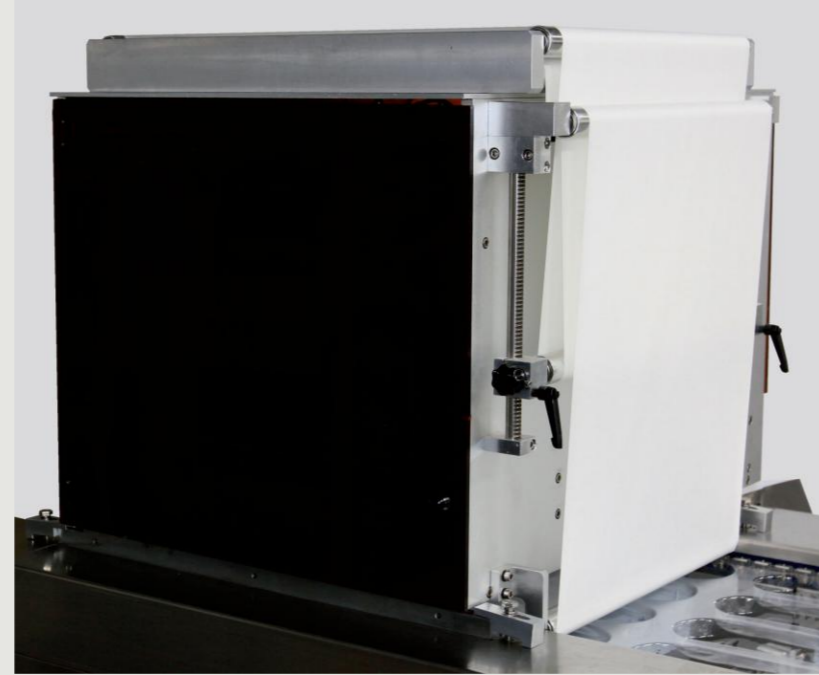
## BRY Series Flexographic Flat Printer

# BRY系列 平板式柔版印刷机

用于与各种包装机配套实现在线印刷特别适用于透析纸表面的单色印刷

This printer is designed to print on TYVEK™ medical paper and will be installed on intermittent FFS packaging machines in front of the sealing station. The new design makes the handling of the printer very easy. For premium print-quality this printer allows for printing of individual product labels with company emblems, lot numbers, etc.

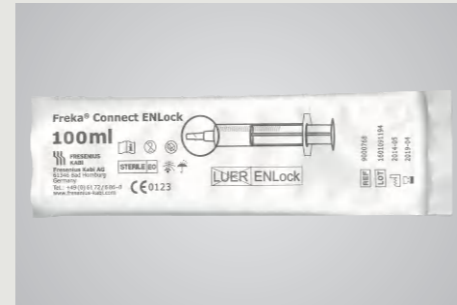
- ◎ 最大印刷宽度: 400mm
  - ◎ 最大印刷长度: 400mm
  - ◎ 最大工作效率: 15 cycles/min
  - ◎ 产品功率: 220VAC/2 KW
  - ◎ 外形尺寸: L68cm×W54cm×H52cm
  - ◎ 重量: 100Kgs
- Print Width (Across Web): 400mm
  - Print Length (Index): 400mm
  - Maximum working cycle: 15 cycles/min
  - Equipment power: 220VAC/2 KW
  - Overall dimension: L68cm×W54cm×H52cm
  - Weight: 100Kgs



注：另有BRY3230及BRY5245可供选择 BRY3230&BRY5245 as optional



水性墨水 Water base ink  
醇墨和稀释剂 Alcohol base ink& Solvent



## International Sales Network

# 国际销售网络



### Customer Support

Partnership through service

We've assembled a knowledgeable and dedicated support system of domestic and international sales, after-sales and customer support professionals. Our skilled consultants and professionals put to use our over 20 years of "know-how in packaging" in every aspect of your project. ZY Automation is committed to being your reliable partner every step of the way. From research and development, machine installation and training, to packaging applications, service and our huge spare parts inventory.