



全自动收缩膜套标签机
AUTO SHRINK LABEL SLEEVING MACHINE



公司简介 COMPANY PROFILE

上海沃迪科技有限公司长期以来致力于包装机械领域的工程服务与技术创新，在充分借鉴、吸收欧美国家以及日本套标技术的系列全自动套标签机，TSM-11，TSM-21，TSM-31，TSM-EXTR，TSM-TW2，TSM-CB共6种机型，高速型机种单头速度可达600标应用，开创了异形包装物自动套标之先河。现我司产品已销往欧盟及日本市场，并在俄罗斯、中东、非洲、东南亚等地区拥SLEEVINGMAX系列全自动套标机融合了欧亚套标技术的设计理念，采用独特的静态裁切技术，并通过步进传动机械原理，综管理体系标准，确保每台设备稳定、精益的制造质量。沃迪完整的售后服务系统，对于无论运转在世界何地的设备，均能提供

Thanks to our rich experiences over 10 years in labeling & sleeving technology, Shanghai Triowin Tech. Co., Ltd. has developed SLEEMAX TSM-CB. The model TSM-31 can reach linear speed of 600bpm of label height less than 100mm and is currently keeping the leading position creative application. Our sleeving machines have been sold to European Union, Japan, Russia, Middle-eastern region, Africa, South-eastern Triowin Tech is always devoted in R&D and deems innovative technology as the most advantage of corporate culture, our SLEEVINGMAX the pace in this field. All the manufacturing process is under strict corporate ERP system and is executed in standards of ISO9000/QS9000, is able to provide prompt responses for any faulty and breakdown in operation wherever the machine is installed.



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上海沃迪科技有限公司长期以来致力于包装机械领域的工程服务与技术创新。在充分借鉴、吸收欧美国家以及日本套标技术的基础上，通过与意大利BIB公司展开全方位的技术合作，结合近十年的专业经验，独立开发出SLEEVINGMAX系列全自动套标套机，TSM-11, TSM-21, TSM-31, TSM-EXTR, TSM-YW2, TSM-CB共6种机型，高速型机种单头速度可达600瓶/分钟（11-100毫米），技术上一直处于行业领导地位。最新研发的TSM-CB套标套机，可以满足杯碗产品的套标应用，开创了异形包装物自动套标之先河。现我司产品已销往欧盟及日本市场，并在俄罗斯、中东、非洲、东南亚等地区拥有众多客户，广泛赢得了业界专业客户的一致肯定。

SLEEVINGMAX系列全自动套标套机融合了欧日系套标技术的设计理念，采用独特的静态裁切技术，并通过步进传动机械原理，综合体现了我司在套标技术方面的领先优势。设备制造过程更严格按照企业ERP管理体系，执行ISO9000/Q8000管理体系标准，确保每台设备稳定、精益的制造质量。沃迪完整的售后服务系统，对于无论运转在世界何地的设备，均能提供最快速的技术支持与服务响应。

Thanks to our rich experiences over 10 years in labeling & sleeving technology, Shanghai Titowin Tech. Co., Ltd. has developed SLEEVINGMAX series of shrink label sleeving machines and totally having 6 standard models: TSM-11, TSM-21, TSM-31, TSM-EXTRA, TSM-YW2, TSM-CB. The model TSM-31 can reach linear speed of 600bpm of label height less than 100mm and is currently keeping the leading position in this field. The newly-innovated TSM-CB model, applied for special containers such as cups and bowls, has launched a completely creative application. Our sleeving machines have been sold to European Union, Japan, Russia, Middle-eastern region, Africa, South-eastern countries and the CE marks is in process.

Titowin Tech is always devoted in R&D and deems innovative technology as the most advantage of corporate culture, our SLEEVINGMAX series machines are incorporated with advanced technology, static state cutting devices, step-driving principles, and currently setting the pace in this field. All the manufacturing process is under strict corporate ERP system and is executed in standards of ISO9000/Q8000, which can guarantee stable and high quality for each batch of production. With our well established after-sales services team, Titowin is able to provide prompt responses for any faulty and breakdown in operation wherever the machine is installed.



-  异形瓶套标
ABNORMITY BOTTLES SLEEVING
-  瓶口套标
CAP/NECK SLEEVING
-  全瓶套标
FULL BODY SLEEVING
-  瓶身半标
HALF BODY SLEEVING
-  杯碗状包装物套标
CUPS OR BOWLS SLEEVING
-  啤酒瓶套标
BEER BOTTLES SLEEVING
-  日化用品套标
COSMETIC BOTTLES SLEEVING

基础上，通过与意大利BRB公司展开全方位的技术合作，结合近十年的专业经验，独立开发设计出SLEEVIINGMAX瓶/分钟（H<100毫米），技术上一直处于行业领导地位。最新研发的TSM-CB型套标机，可以满足杯碗装产品的套有众多客户，广泛赢得了业界专业客户的一致肯定。合体现了我司在套标技术方面的领先优势。设备制造过程更是严格按照企业ERP管理系统，执行ISO9000/QS9000最快速的技术支持与服务响应。

series of shrink label sleeving machines and totally having 6 standard models: TSM-11, TSM-21, TSM-31, TSM-EXTRA, TSM-TW2, in this field. The newly-innovated TSM-CB model, applied for special containers such as cups and bowls, has launched a completely countries and the CE marks is in process.

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日化用品套标
COSMETIC BOTTLES SLEEVIING

上海沃迪科技有限公司TSM系列套标机可以套全身标，瓶身半标，瓶肩标以及防盗瓶口标，速度最高可达600瓶/每分钟。我们的通用套标机可使用非常广泛的产品之收缩膜套标，同时很方便地与您的生产线相连接配套。特制的切刀盘能够对标签进行精准的静态裁切，裁切口光滑无毛刺，本机采用触摸屏操作控制，简单方便。

The TSM series Shrink Sleeve Applicator applies full body labels, half body labels, neck body labels as well as tamper evident bands, at speeds up to 600 containers per minute. This versatile machine can be used for a wide variety of products and can be incorporated into your existing production line. Utilizing a rotary cutting assembly, the TSM will provide accurate cutting and extended blade life. With a touch screen operator interface and quick changeovers, the TSM is operator friendly with minimal down time-critical features to maximize productivity

TSM 收缩膜套标机能够处理大多数的收缩膜包装产品容器范围：

- PET, PVC, PE, PP OPS 等塑料材质、玻璃和金属。
- 容器最大高度可达350MM
- 容器直径范围：28MM~180MM

标签范围：

- PET, PVC, OPS等具备热缩性的塑料材料
- 厚度≥20微米
- 透明标签和印刷标签
- 透明和印刷混合标签

The TSM Shrink Sleeve Applicator, is capable of handling most of your shrink sleeve challenges. Containers:

- Made of PET, PVC, PE, PP, OPS, glass and metal
- Height - up to 350 mm
- Diameter - 28 mm to 180 mm

Sleeves:

- Made of PET, PVC, PS and OPS
- Thickness:20microns(minimum)
- Printed and unprinted sleeve film
- Mixed printed with unprinted sleeve film

技术特性 FEATURES:



1. 采用不锈钢材料制作，机体坚固
2. 高速稳定，使用寿命长：它独特的灵巧化、简洁化设计在业内可谓一枝独秀，这种独到的设计为套标机的高速运作提供了技术上的有力支持。零配件均采用世界知名品牌，特别是电器控制系统部分，为对用户负责，对自己信誉负责，全部采用相关工控行业的顶级产品，从根本上保证了设备的品质性能，另外它特有的封闭设计，在运作过程中不仅对操作者，同时对设备系统本身也起到了良好的保护作用，大大延长了设备的使用寿命。
3. 安全性能好：新款套标机在设计过程中充分体现了人机和谐的设计理念，设备运作生产过程中，始终处在一种独特设计的保护系统之下，如果人为不当操作带来安全隐患，则其安全系统自动检测到并且马上停止运作，必须恢复并通过检测认可方可继续。
4. 使用范围广：在有效的折径范围内，不论包装物是圆形、方形或其他异形形状，材质为玻璃、塑胶，都能适用。
5. 运转成本低廉：一机多瓶使用，在整台设备上只有切刀是唯一磨损零件，获取容易，更换方便，成本负担低。
6. 更换包装物容易：采用模组化换模设计，一瓶一模 更模免用任何刀具，只需手动作些简单的调整即可。
7. 伺服马达控制标签的输送和裁切精度
8. 中心导柱采用超高分子塑料，重量轻，使用寿命长。

1, Machine is made by stainless steel with strong structure.

2. High speed with high stability and long service life. Flexible and compact design guarantee the high speed operation. All the parts are from famous brand, especially the electrical control parts, which guarantee the high stability and the long service life.

3. High safety: when safety system detect any hidden trouble, the machine is stopped automatically and will restart after the inspection.

4. Flexible usage: within the flat width limitation, this machine can be used to package objects in different shape, no matter round, square or abnormal shape, can be applied on glass, plastic articles.

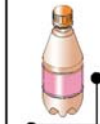
5. Low operation cost: the only part in this machine need to be replaced from time to time is the cutting blades, which is a low cost item.

6. Easy to change packing material: the changeover of the mould can be easily done by hand without any tools.

7. Servo motor are using for blade and label driven-precise and long-lasting.

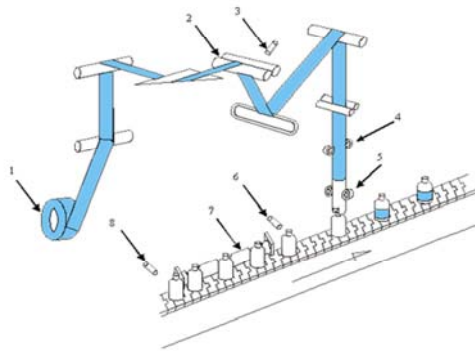
8. Holder made by hard plastic-light and long life.

瓶身半标 HALF BODY SLEEVING



瓶身半标套标机适用于各类材质的包装容器，通用性广，不管包装容器形状如何只要符合套标原理（标签所处位置上部的瓶体折径小于标签下部位置折径2mm以上为最佳），本机一并适用而无须特殊设计。

Made of all kinds of material and meeting the principle of sleeving (the lay flat bottle width of sleeve position \leq the lay flat bottle width of upper sleeve position), all the containers can be used on the half body sleeving machine.

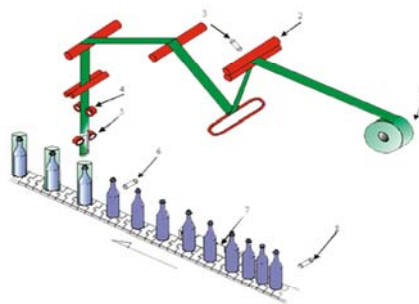


瓶身全标 FULL BODY SLEEVING



全瓶套标机不受瓶形的影响，只要在本机的应用范围之内，无须特殊设计，对异形瓶的套标更显优势，已广泛应用于各大食品厂、果汁饮料厂及酒厂等。

Without the limit of the bottles, full body sleeving machine has been widely used in many foodstuff, fruit drink and spirit factories.



瓶口密封套标 TEMPER EVIDENCE




瓶口套标机广泛应用于包装容器瓶口需密封的场合，有效提高产品附加值，提升产品形象。本机采用先进技术，解决了瓶口套标时可能出现的定位不准确、歪标、跳标等一系列问题。

In many cases, the final products may need temper evidences bands at the cap/neck banding. With our advanced technology and very rich experiences in this special application, we are capable of solving problems of incorrect sleeve position, slanting sleeve and jumping sleeve etc what frequently happen by other suppliers.

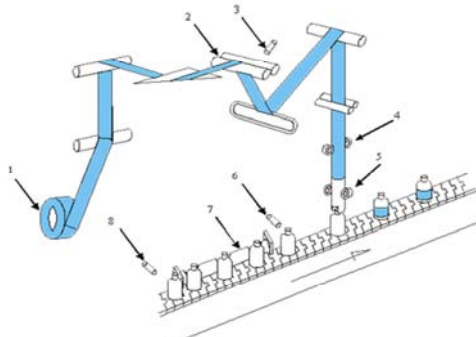




异形瓶套标 ABNORMITY BOTTLES SLEEVING




异形瓶套标机使用范围极广，只要在标签允许的折径范围内，不论瓶子的材质是玻璃、金属或者塑胶，瓶子的形状是方形、圆形、椭圆形或其他任意异形形状，都能选用本机套标，能对各种较复杂的异形容器进行完整的套标是我们套标机的一个特色。

Our machine has a large range of adoption. It will widely work if the label's layflat width is allowed even though the bottle has different sizes, material, or figures. Our machine has running at the label inserting for the bottle of glass/steel/plastic, and square/round/ellipse shape and so on.

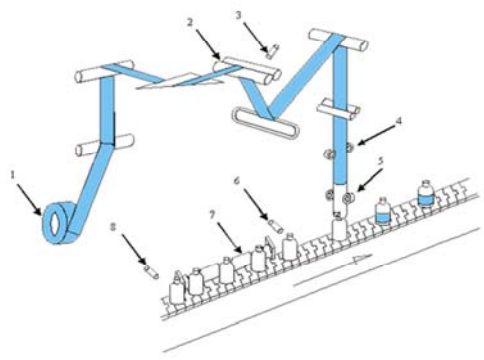




日化用品套标 COSMETIC BOTTLES SLEEVING




本机采用扁形中心导柱设计，开行业之先河，解决了普通收缩膜标签的扁形瓶体套标的技术难题。特别适用于化妆品类扁瓶的套标。是我公司在不规则容器套标问题上的贡献性产品。

The machine introduced the design with central shaft which is flat. It solved the technology problem of flat bottles sleeved with normal shrinkable labels. It's the same with flat bottles cosmetic. We contribute greatly in abnormality cases' label inserting.



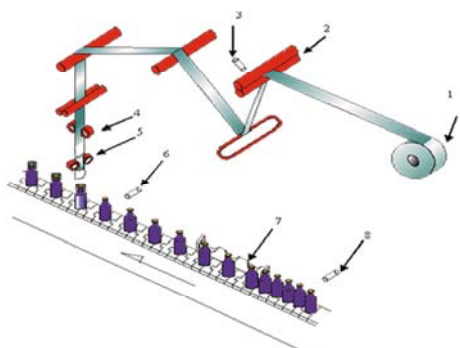


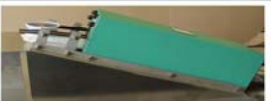
杯碗状包装物套标 CUPS OR BOWLS SLEEVING




国内独创。适用于杯状和碗状包装物的套标，独特双翻转系统配置，可满足各种杯碗状包装物的特殊套标要求。解决了杯碗状包装物在全自动套标上的难题。

It's original creation in our country. The machine has been the same with cups and bowls sleeving. Double overturning systems have been deployed. The machine solved the difficult problem which sleeve in caps or bowls, it's may be meeting special request to sleeve in caps or bowls.





由于杯碗形状的特殊性以及生产工艺的特殊性，若使用套标机，通常要利用翻转器。As particularity of shape and production technics of this kind of container, with shrinking label sleeving machine, usually should utilizing container inverter

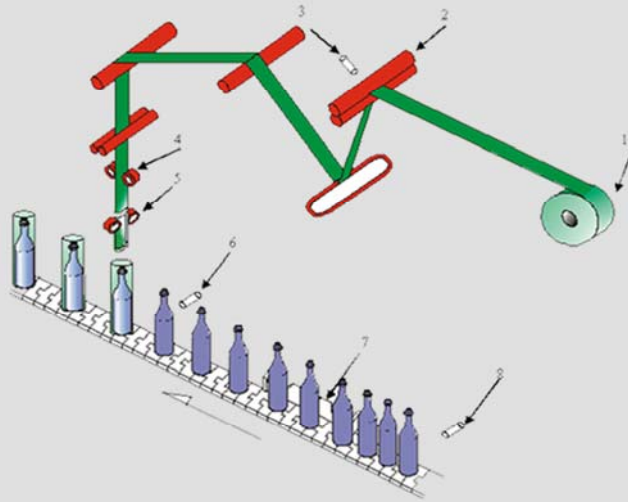


啤酒瓶套标 BEER BOTTLES SLEEVING



本机采用双头套标设计，可同时套双标，彻底解决了啤酒瓶自动套标过程中的瓶身、瓶颈同时套标问题，同时在产能设计上有重大突破。可广泛应用于啤酒瓶及类似产品的自动套标，大大降低客户的运行成本。

The machine introduced the design with double inserting systems, can insert double labels at one time, it solved quite about beer bottles' problem of what body&neck been sleeved contemporary. We have bigness breach. So the machine can be widely used in beer bottles' or resemble products' sleeving. Largely depress running cost.



细部零件 PARTS



切刀座
UNIQUE BLADE SEAT
特殊设计的钢体结构，采用自旋式静态裁切，免用碳刷，裁切精准均一。
Special design with steel constructs. Static self-rotating cutting guarantee the precise cutting and no carbon brush will be used



同步皮带定位组
SYNCHRONAL LOCATING GROUP OF BELTS

上下可任意调整的定位皮带，可对套标位置进行准确定位，且与输送带同步运行
Adjustable locating belts will precise locate label and synchronal running with the conveyer.



射标整理
LABEL INSERTING & TIDING

大直径滚轮设计 大大提高射标力度；软旋转式整理 迅速定位且毫无损伤。
Big diameter idler wheel can improve the inserting strength greatly; soft rotational tiding system ensure quick location without any damage to the label



标签定位电眼
MAGIC EYE USED IN LOCATING OF LABELS

灵巧设计的对射捕捉方式，保证裁切的位置精确
Facility design with opposite radial to ensure the perfect position cutting.



标签对接模块
SEWING MODULE

新旧标签实现快速对接，大大节约换标时间
To sew for new and old label save time of changing label a lot



标签监测电眼
LABEL DETECTING ELECTICPHOTO

自动监测标签供应状态，无标停止，提示换标。
Detecting label while working, the machine will stop when the label is over

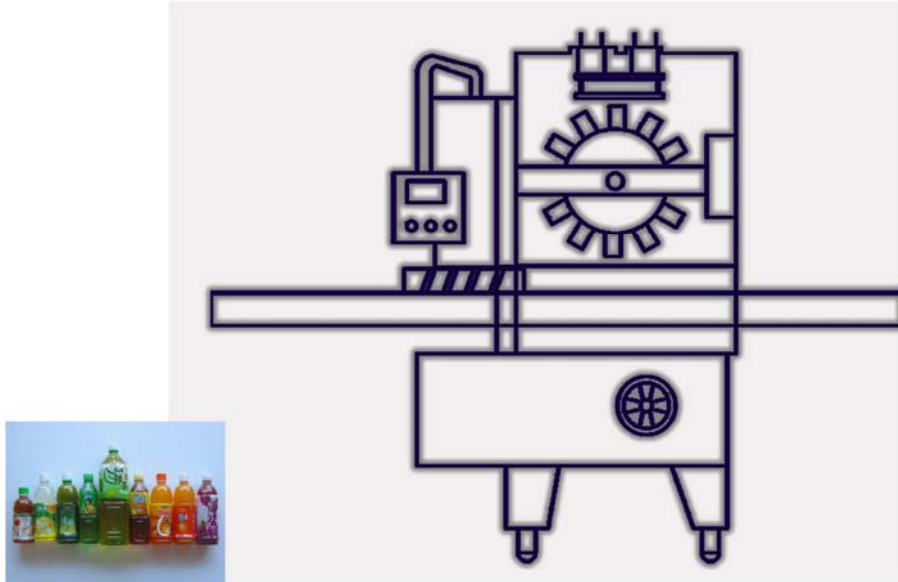
PLC人机操作界面 INTERFACE



PLC 集成自动控制，人机界面采用触摸方式，操作极为简单方便、人性化

Plc automatic control, touchable interface, easy and humanity control

旋转式高速套标机 Rotary high-speed shrink label inserting machine



TSM-2000型旋转式高速套标机是我们正着手研发的新型套标机。这种套标机能够以1000瓶/分钟的高速24小时持续运转，彻底解决了套标速度不足的问题。

We are exploring a new model, the rotary high speed shrinkable label inserting machine, which is a high-speed in-line shrink labeler with heavy duty construction designed for 24 hours continuous and demanding production discipline for up to 600bpm

技术参数 TECHNOLOGY DATA

电源POWER	马达MOTOR	机械尺寸OUTSIDE DIMENSION	包装要求SPEED	瓶子规格 BOTTLE DIMENSION
3 ϕ 380VAC	5KW	1600X1000X2300 (MM)	>600BPM (MIN)	ϕ 28- ϕ 120MM \times 350H MAX
适用标签厚度LABEL THICKNESS	适用标签折径LAY FLAT WIDTH	适用包材APPLIED MATERIAL	适用标签长度LENGTH	
0.02MM MIN	30MM-190MM	PS PET PVC	300MM (MAX)	

本机有个双头标签盘，系统能够在在一个卷标工作时，另一个卷标准备，中间只需要极短暂的过程停顿 就能实现连续生产。配置有多样性的、自动发送、全自动进标系统（可选）

A twin unwind system allows one label material roll being in action while the other is standing by for continued operation with a brief splicing stop a variety of sent-automatic and fully automatic roll feeding system is offered as an option.

设备的运转是受伺服电机的驱动并在集成电路控制下动作的，伺服马达驱动切刀的动作，圆柱干上的标签的运动正好和瓶子的运动速度相吻合，整个动态系统的运作完全是采用集成电路控制 并通过触摸屏操作。

Machine is servo driven and microprocessor controlled.A servo motor drives the machine and operates a shear cutter ,labe opening and transfer mechanism as well as the main vertical turret all changes can be made through a touch screen interface control panel

技术参数 TECHNOLOGY DATA:

机型MODEL NO	TSM-11	TSM-21	TSM-31	TSM-EXTRA	TSM-TW2	TSM-CB
规格 SPECIFICATION						
电源 POWER	3 φ 380VAC					
马达 MOTOR	3KW	3KW	3KW	4KW	6KW	3KW
机械尺寸 OUTSIDE DIMENSION	1080X800X2150 (MM)	1100X800X2150(MM)	1525X800X2250(MM)	1600X1100X2800(MM)	1850X800X2150(MM)	1080X800X2150 (MM)
包装速度 SPEED	250 BPM(MAX)	250-350BPM(MAX)	350-500BPM(MAX)	80-120BPM(MAX)	500-850BPM(MAX)	100-250BPM(MAX)
瓶子规格 BOTTLE DIMENSION	φ 28- φ 120MM X 350H (MAX) 圆瓶和方瓶均可适用 round and square bottles are both available			φ120- φ250 MM X 450H	φ 28- φ 120MM X 350H	φ 28- φ 120MM X 350H
适用标签厚度 LABEL THICKNESS	0.02MM (MIN) ~0.08MM					
适用标签折径 LAYFLAT WIDTH	30MM-190MM			190MM-395MM	30MM-190MM	
适用包材 APPLIDE MATERIAL	PS PET PVC					
适用标签长度 LENGTH	300MM(MAX)			350MM(MAX)	300MM(MAX)	
折径换算法 FORMULAR OF FLAT WIDTH	(包装直径+1.5MM) X 1.57 (BOTTLE DIA+1.5MM) X1.57					
应用范围 APPLICATION	食品、饮料及制药行业、调味品、果汁、注射针、牛奶、精制油等 Applications in food, beverage and pharmaceutical industries eg. jars with souce, ketchuo bottles with fruits, soinas cases olasic bottles withe milk,oil etc.					

* TSM-EXTRA是为了解决生产实践中出现的一些超大直径的瓶、罐包装物的套标问题而研发的新款套标机。

*Once of the machine types above , the TSM-EXTRA is a new model that will solve the following label well that of big diameter of container such as glass bottle ,platic jar etc .

*TSM-TW2是为了解决高速的生产需要以及一瓶套双标的问题而研发的套标机。

*Once of the machine types above ,the TSM-TW2 is a new model that will solve such as high speed be needing of the production and two labels were inserted one bottle at one time . etc.



标签收缩机 LABEL SHRINKING TUNNEL

SSS型蒸汽是标签收缩机使我在消化吸收意大利、荷兰、日本等国同类产品的基础上自行设计、改进、制造的国内首台蒸汽是标签收缩成型设备，开创了国内标签蒸汽收缩的先河，彻底消除了标签收缩不均匀、易起皱、次品废品率高等诸多问题，是电加热式（远红外）收缩炉的革新换代产品。

Series of Model SSS steam label shrinking machines are designed ,innovated and manufactured by Shanghai Triowin Technology Co.,Ltd .As being the 1st steam type made domestically ,this machine explores the new era of this field ,completely solved the problems of unevenly shrinking , high waste which are commonly induced by types of electrically-heated or infrared media and therefore it is regarded as an innovator of the formers.

SSS系列蒸汽收缩机特点: FEATURE

低热能，使用成本更低，安装更方便
Low heat energy and cost, easily assembled

热源均匀分布，标签受热均衡
Balanced label heat energy distribution

标签均匀收缩，无起皱、过热现象
Balanced label shrinking, no cockle and over-heat

无易损件及易耗件，使用寿命更长
No wear parts and long life use

在较大范围内，可调速生产，无须其他任何设备更改
Stepless-timing motor, no any adjustment of machine

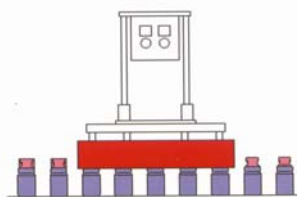
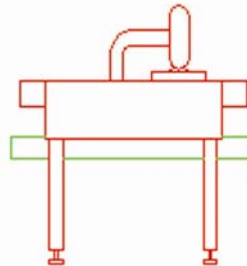
专利设计，结构紧凑，操作简单，高速稳定
Patent design, compact structure, simply operation

对标签品质（色泽及光泽）无过热伤害，维持标签固有设计
No any harmful to bottle and label

免维护设计，在线连续生产，低运行成本
Continuum production on line and low running cost

适用范围广，针对不同瓶形只需稍作调整
Wide application, a little adjustment aim at unlikeness bottles

可接受特殊设计
Accept to special design



瓶口套收缩示意图
INDICATION SKETCH FOR BOTTLE
NECK LABEL SHRINKING

相关技术数据 TECHNICAL SPECIFICATION

全机采用SUS304不锈钢材质

The equipment manufactured from 304 stainless steel

分体式设计，安装移位方便、快捷

Flexible and rapid assembly for simply design

蒸汽通量自由调节，生产速度0~500瓶/分钟

Arbitrary adjustable steam, speed 0~500b/min(or conveyor's speed 0~25m/min)

蒸汽压力(Steam pressure):0.1~0.2mp

装机容量 (Power) : 0.75KW/1.75KW

设备尺寸 (Dimension) : 1500 (L) × 400 (W) × 2000 (H)

2500 (L) × 400 (W) × 2000 (H)

国内部分应用实例 APPLICATION



可口可乐-酷儿果汁饮料



光明集团



澳的利集团



山尔饮料

部分客户



惠尔康公司



杨协成集团



热浪饮料



银鹭饮料有限公司

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BETTER QUALITY BETTER SERVICE

国外部分应用实例 APPLICATION



南斯拉夫 CAFTE 果汁饮料
500cc Fruit juice in Jugoslavia

阿尔及利亚 YUIP 清洁剂
750cc lotion in Algeria



伊拉克 FULUYA 含汽饮料
CSD for 350cc in Iraq



南非 YOYI 矿泉水
350cc mineral water in South Africa

澳大利亚 SHINE 纯鲜乳
500cc pure milk in Australia



马来西亚 KUDU 饮料厂
350cc fruit juice in Malaysia



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BETTER QUALITY BETTER SERVICE



我们的贴标机遍及世界各地

OUR LABELER AROUND THE WORLD

Algeria
Belgium Finland
Camerun
Costa d'Avorio
Italia
Mauritius
Russia
Tanzania

Arabia
Belgio
Canada
Croazia Emirati
Macedonia
Nuova Zelanda
South Africa
Turchia

Austria
Brazil
Colombia
Egpyt
Malta
New Zealand
Serbia
Ucraina

Argentina
Brasile
Congo
Francia
Mexico
Polonia
Slovacchia
Ungberia

Aussie
Bulgaria
Corea
Grecia
Malaysia
Rep. Ceca
Slovenia
Venezuela

尽心尽力 尽善尽美
Approaching Perfection

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