

Food Processing & Packaging Consultant
食品加工和包装顾问

TOP ENGINEERING

We vow to improve the future of food.
我们承诺为开拓更美好的食品未来而奋斗。



大福産業株式会社
DAIFUKU SANGYO CO., LTD.

Daifuku Sangyo has made contributions to society through various industries.

"Food" is a basic necessity of human life for different nations, times and races.

Obtaining food from nature is at the root of human life, and maintaining the delicious taste of food and keeping it fresh anytime and anywhere are advantages of "processed food."

How do we provide gourmet food to as many people as possible?

Daifuku Sangyo has continually made efforts for its food range and technical innovation of processed foods through marketability, simplicity, economic efficiency and safety.

Since its foundation, Daifuku Sangyo has always based its research on customer opinion. We provide advanced food-processing technology and equipment aimed at customer satisfaction.

We offer a full range of solutions including material selection, appropriate production management, pollution-free packaging, automated storage and goods distribution, etc., to our customers.

We always pay attention to our clients' marketing performance, so that we can promptly resolve their difficulties. We also recommend appropriate products suitable for the cultural preferences of our clients. Daifuku Sangyo hopes to befriend its clients instead of merely maintaining a trading relationship. We would like to work together as partners to develop prosperous food cultures.



经由各种产业界贡献社会的大福产业

不管是国家、时代或人种，“食”是人间生活之原点。

生命之根干，有关人类从大自然取得之食物，想在何时，何处都能随时享受到其美味，保持其新鲜度，可能实现的就是“加工食品”。

如何使更多人能吃到更美味之食品。大福产业一直以在食生活发展及有关加工食品的技术革新上，诸如流通性，简便性，经济性，安全性等方面做不断的努力。

大福产业自创业以来，始终站在客户立场，研究提供先进的食品加工技术及设备。

从原材料选择，合理的生产管理，无公害性包装，自动仓储，货物流通等一贯提案给客户。

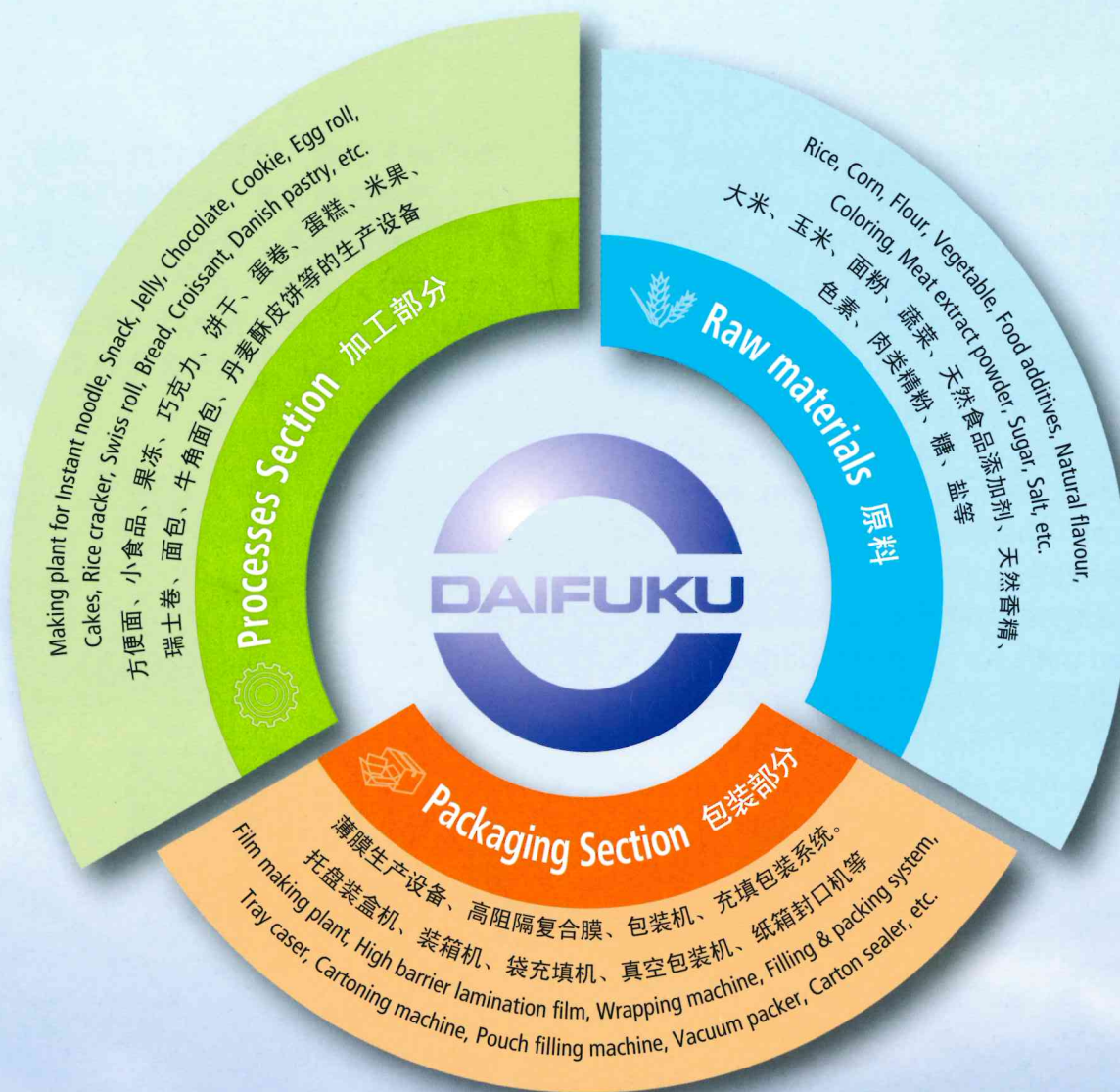
时时留意客户之经营状况，迅速解决客户所面临的困难点，推荐适合各国国情之产品，希望将来和客户之间彼此由买卖双方变成朋友，共同成为繁荣“食”生活之伙伴。

COMMITMENT

我们的承诺

FOOD PROCESSING & PACKAGING CONSULTANT

食品加工和包装顾问



DAIFUKU can assist you

When you need to intend automation and labor saving.

When you have troubles in your production lines.

When you need to secure high uniformity of products.

When you need to use limited space efficiently.

With all efforts to fulfill our responsibility supported by high capabilities.

大福产业可以协助您 . . .

当您想要自动化生产或减轻劳动力的时候。

当您在生产线上发生问题的时候。

当您想保证产品质量的均匀性的时候。

当您想提高占地面积的利用效率的时候。

我们会尽最大力量负责帮助您获得最大成果。



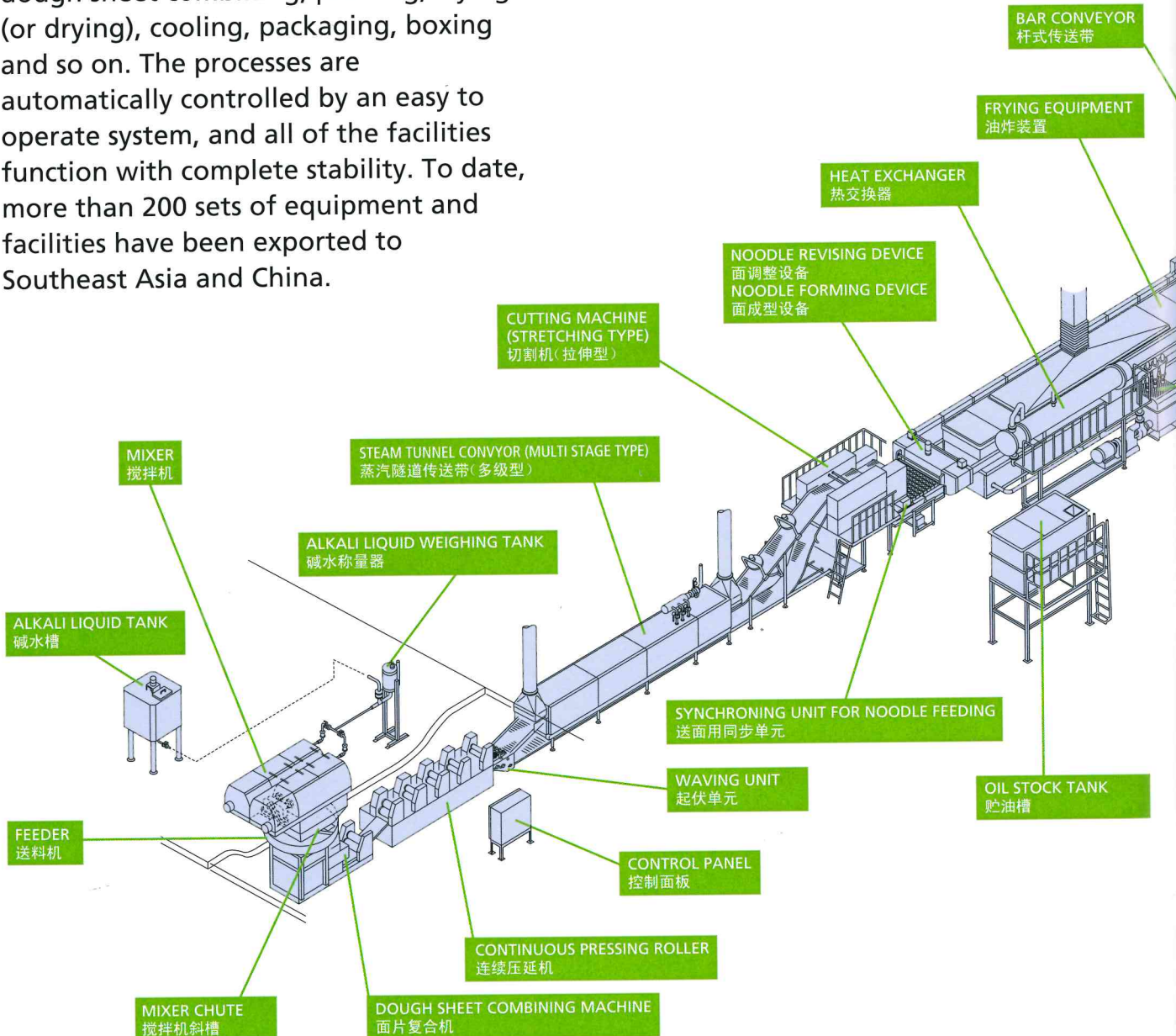
Food processing
食品加工

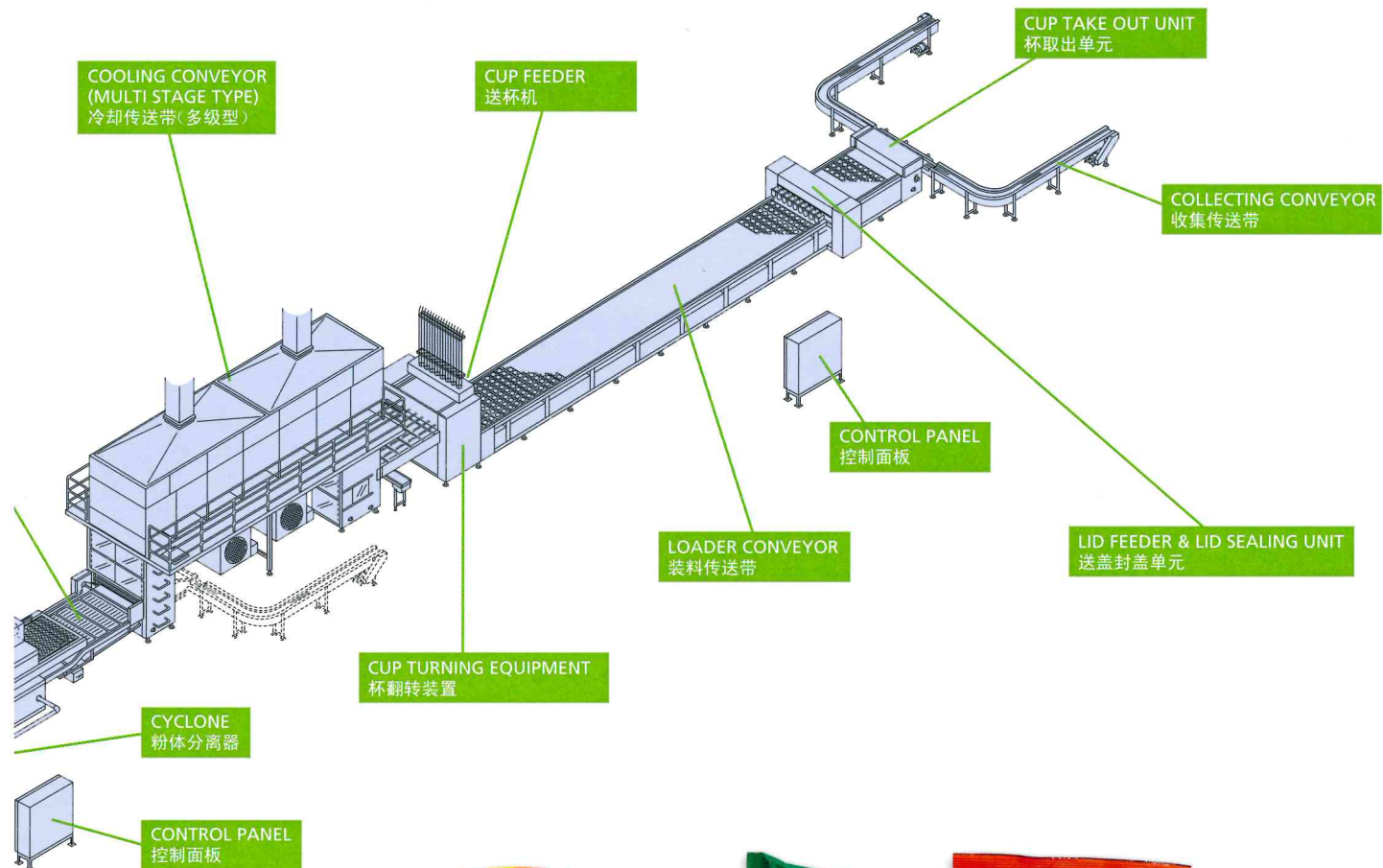
Instant noodle making plant

方便面生产设备

We utilize abundant experience and professional technologies in providing a complete set of equipment for instant noodle (bag noodles, cup noodles and bowl noodles) production equipment and facilities. The whole production process includes automatic mixing, dough sheet combining, pressing, frying (or drying), cooling, packaging, boxing and so on. The processes are automatically controlled by an easy to operate system, and all of the facilities function with complete stability. To date, more than 200 sets of equipment and facilities have been exported to Southeast Asia and China.

我们对于供应方便面（袋面，杯面，碗面）的生产线成套设备，具有专门技术，长久经验，从自动搅拌，复合，压延，油炸（或干燥），冷却，包装，入箱等所有工程均采自动控制，易于操作，各机器性能稳定。我们已有输出 200 条以上成套设备到东南亚，中国各地之实绩。







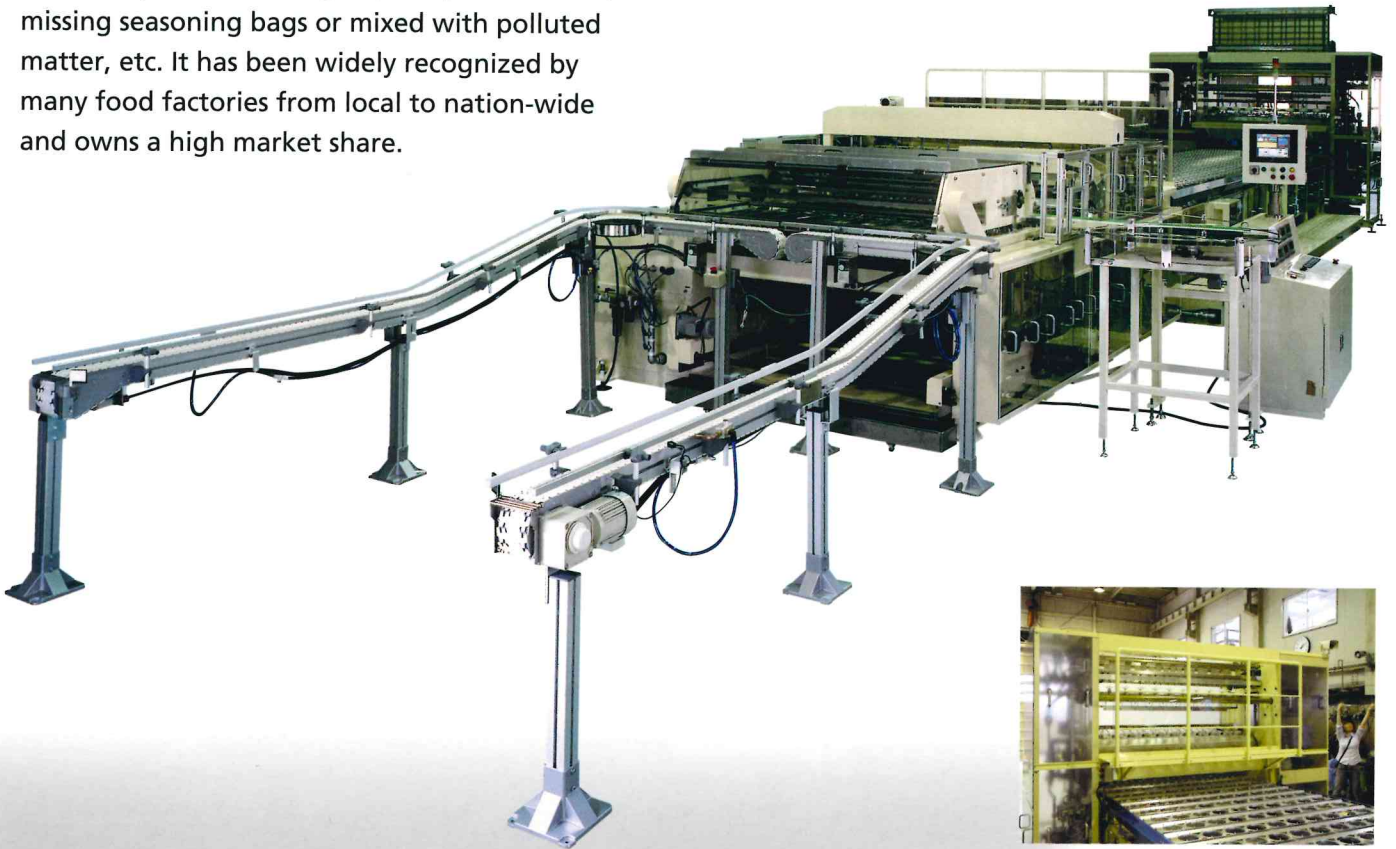
Food processing
食品加工

Instant noodle making plant (Packaging section)

方便袋面、杯面、碗面生产线关连设备

The special bowl sealing machine for container noodles (cup noodles and bowl noodles) can handle containers with different calibers and is able to automatically select out defective products which may be underweight, poorly heat sealed, missing seasoning bags or mixed with polluted matter, etc. It has been widely recognized by many food factories from local to nation-wide and owns a high market share.

容器面(杯面,碗面)专用封碗盖机,能满足各种不同口径之容器,自动排出重量不足,热封不良,缺少调味包,异物混入等不良品,深受国内外各大食品厂家佳评,市场占有率高。



Cup supply
容器自动供给装置

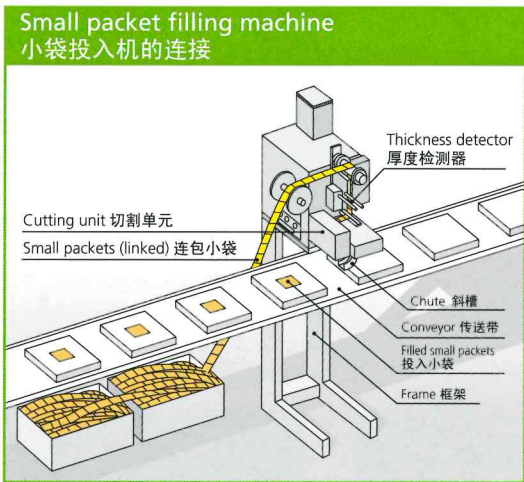


2nd floor cup separating unit
2楼容器自动分离装置



The automatic packing machine in a pillow style is applicable to instant noodles (bag instant noodles, cup noodles and bowl noodles), biscuits, rice crackers, dried noodles, soaps, batteries, muffins and so on. Driven by servo motor, the length can be adjusted according to your needs. It has a precise electric eye and an independent automatic membrane connecting device that is easy to operate.

全自动枕式包装机, 适用于方便面(袋面, 杯面, 碗面), 饼干, 米饼, 干面, 肥皂, 干电池, 妙芙蛋糕等, 袋长可任意控制, 采伺服马达驱动, 电眼精确, 独立自动接膜装置, 便于操作。



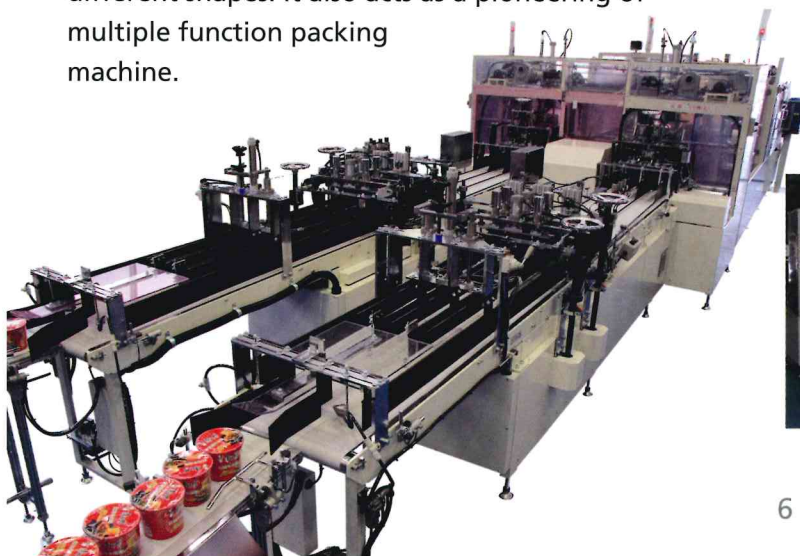
Both small-sized packaging bags and instant noodle seasoning bags are put into the containers by an automatic throwing device to keep the plant clean and save labor at the same time. With ultrasonic bag length detector and locating device,

the bags can be arranged precisely. This machine is suitable for all kinds of food factories.

小型包装袋, 方便面用调味包等用自动投入设备, 可保持工厂卫生, 节省人工, 因附有超声波袋长检知器及定位装置, 能非常正确将袋投入, 适用于各种食品工厂。

The cup noodle and bowl noodle box filling machine we recommend is of generality and high performance. It combines product set and double-acting. It is applicable to product with different shapes. It also acts as a pioneering of multiple function packing machine.

我们推荐的杯面, 碗面装箱机, 具有泛用性, 高性能, 使用集积装置和复列式之并用, 能适合用于不同形状之产品及不同速度合理化装置, 是综合包装机械的先驱。



Finished carton
成品纸箱



Food processing
食品加工

Confectionery making plant

糕饼、面包、蛋糕等生产设备

Depositing and Forming Machine

充填成型机

You can select the best depositing and forming machines to make dough with the specific qualities for the confections you wish to make.
可根据想要制作糕点的面团特点和物理特性,选择最合适的充填和成型机。



Depositing machine (line use)
生产线用充填机



Unit-type filling and forming machine
SYSTEM DEPOLY Evolution II
单元式充填成型机
SYSTEM DEPOLY Evolution II



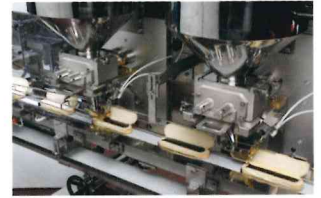
Cookie line
饼干生产线



Finishing line
最后加工生产线



Heat press
热压



Automatic sandwiching machine
自动夹心机

Far-infrared Gas Tunnel Oven

远红外辐射燃气式隧道烤炉

We used our know-how in producing delicious baked goods to create a safe, easy-to-use oven.
将独自的美味烘烤诀窍融入了安全简单的操作中。



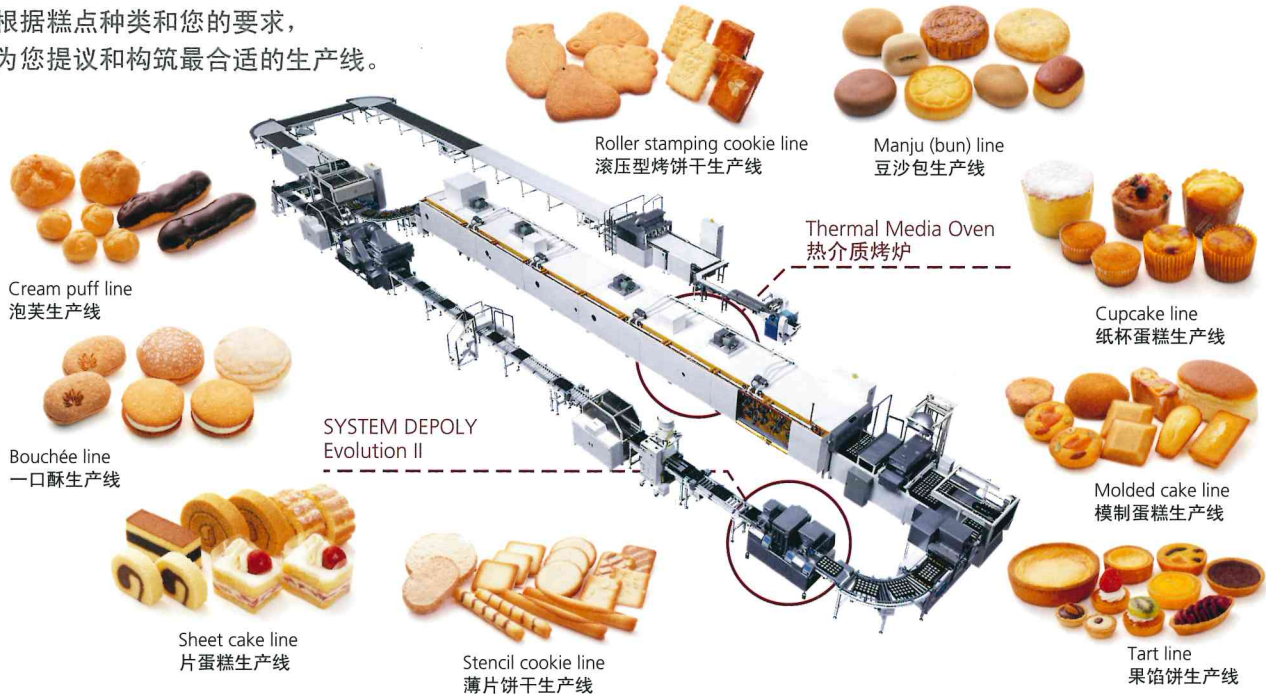
Thermal Media Oven STO/SBOS
热介质烤炉 STO/SBOS

Integrated Production Line

一条龙生产线

We can recommend and construct the best production line to meet your needs in creating a variety of confections.

根据糕点种类和您的要求，
为您提议和构筑最合适的生产线。



Direct Heat Oven

直接烘烤成形机

Traditional methods and recipes, handed down for generations, have been computer automated and recreated.

利用电脑自动化控制，能够忠实地再现世代传承下来的传统制法和独具匠心的制法。

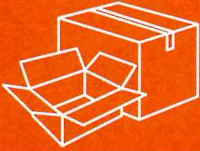


Automatic Dorayaki Machine SDR-KAM
全自动铜锣烧机 SDR-KAM

Baumkuchen

年轮蛋糕





Packaging
包装

High-speed automatic form-fill-seal packaging equipments and facilities

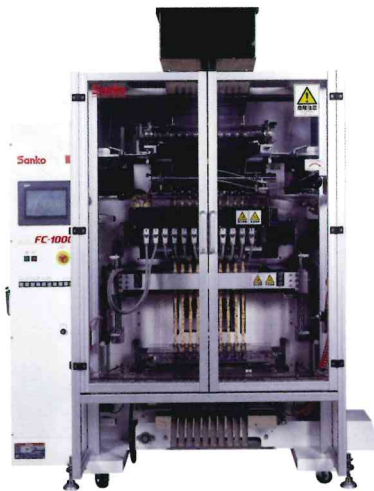
高速自动充填制袋包装设备

Stick packaging machine

长条状包装机

Strip automatic form-fill-seal packaging machines can save packing materials and can be operated easily. They are widely used for packing various products such as, granulated sugar, dried soup, jam, jelly, baby milk powder and so on. They can also be designed to fit with multi-strip shapes for greater productivity.

长条状自动充填包装机, 即能节省包材, 又方便使用, 广泛应用于包装各种砂糖, 干燥汤料, 果酱, 果冻, 婴儿奶粉等, 又因可设计多列式, 产能也大。



Liquid/viscous fluids packaging machine

液体粘体包装机

Different fixed displacement pumps are used for liquid and paste packaging machines to avoid leaking. It is clean and safe.

The machine is applicable to package liquid soup, edible oil, sticky sauce (bean sauce) and cream.

液体, 粘体用包装机, 为避免有漏液现象而选用各种不同定量泵, 即卫生又安全。

适用于包装液体汤料, 食用油, 粘度较大酱类(豆瓣酱), 膏状物。



Powder packaging machine

粉体包装机

Powder packaging machines are applicable to all kinds of powdered soup, dried vegetables, granular food and certain kinds of chemical powder. The current high-speed packaging machine can fill around 600 bags per minute. This compact machine can save plenty of human labor and time.

粉体包装机, 适合各种不同粉末汤料, 脱水蔬菜, 颗粒状食品, 部份化学粉剂。

目前开发之高速机每分可包600包左右, 占的空间小, 又能省人工。



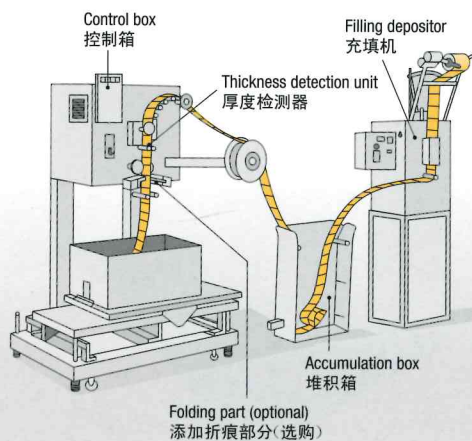
Linked package folding machine

连包叠袋机

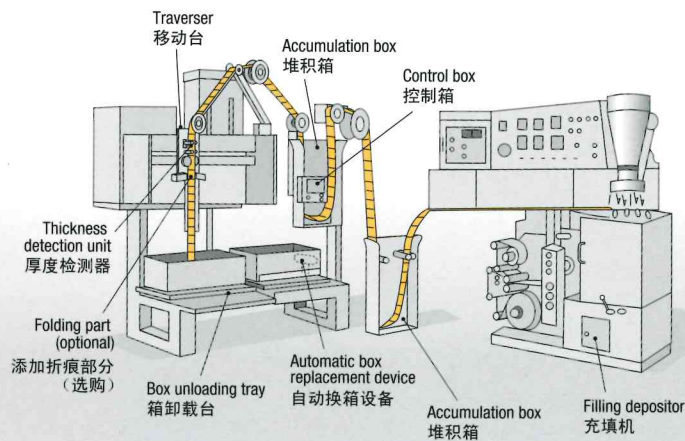
The bag folding machine for small packaging bags and continuous bags can put finished bags into the predetermined boxes for easy transportation and storage.

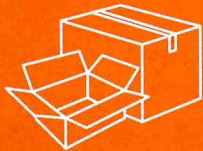
小型包装袋, 连包用叠袋机, 能正确将连包带整入预定之箱内, 运送, 保存均方便。

Connected to the 3-side seal filling machine 连接至3边封边包装机



Connected to the high speed 3-side seal filling machine 连接至高速3边封边包装机





Packaging
包装

Other packages, production equipments and facilities

其他包装、制造机器设备

Vertical form Fill & Seal machine

纵向枕式包装机

Longitudinal pillow style packaging machines are compact, high performance, and low cost. The machine body is stainless and Chinese, Japanese and English languages can be chosen from the display screen. They are equipped with high-accuracy memory to store 30 different packaging styles, which can improve the efficiency of production lines.

They are applied to candies, cookies, snacks, beans, frozen foods and agricultural products.

纵向枕式包装机，占地小，性能高，成本低。

不锈钢机身，显示屏可选择中，日，英三国语言。搭载了高精度内存，可记忆 30 种不同的商品包装类型，有助于提高流水线的生产效率。

适用于糖果，饼干，小吃类，豆类，冷冻食品，农产品等。

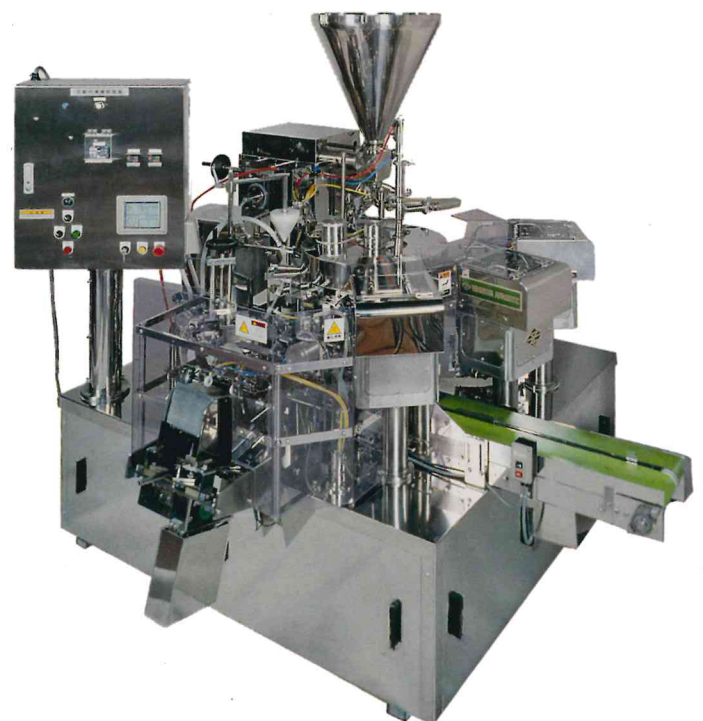


Fully automatic filling & packaging machine

全自动立袋定量充填包装机（液体，粘体用）

Fully automatic stand bag filling packing machines are applicable to packaging of prepared foods, frozen foods, shampoos, oils, liquids and pastes (solid automatic input device can be attached).

适用于包装调理过食品，冷冻食品，洗发剂，油，液体，粘体（可附固形物自动投入装置）的全自动立袋式充填包装机。



Paper container aseptic filling machine
 高速高性能纸容器无菌灌装机



Paper container aseptic filling machines can complete 8,000 bags/hour/per working line. It is a high speed and high performance machine.

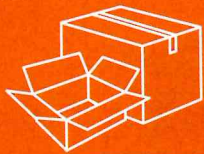
纸容器无菌灌装机，高速高性能
 (1 列的灌装能力为 8000 个 / 小时)

Oblique Axis-type cooking mixer
 斜轴式大型加热搅拌机

Oldique axis-type cooking mixers are applicable to Seasoning foods, Sauces, Curries, Roux, Soups, Gravy, Mayonnaise, Soybean paste, Jam, Flour paste, other paste-type foods, Fried foods etc. Heating & mixing for chemical products, such as Cosmetics, Oils & Fats, etc. is also available.

用途：
 各种调味食品，调味汁，咖喱黄油面酱，汤汁，佐料，蛋黄酱，豆酱，果酱，面团，其他糊状食品，烘炒物等化妆品的加热搅拌。





Packaging
包装

Other packages, production equipment and facilities

其他包装、制造机器设备

MITSUBISHI WRAP-AROUND CASER MR-K FOR BAG 三菱方便面用裹包式高速纸箱包装机

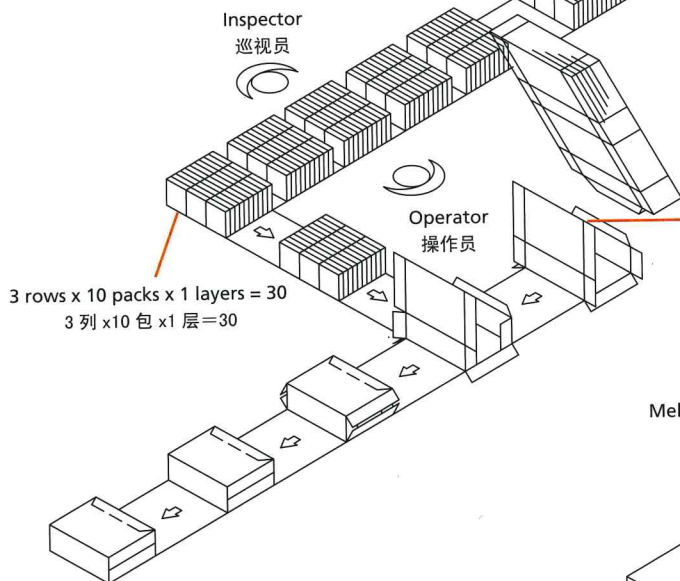


Line Infeed 流水线进料

- It is possible to convey products at 210 bags/min./line. (Total 420 bags/min./line)
- Even if one line stops, there is no need to stop another line. Only one line is needed to operate.
- 每条生产线的产品传送量可达 210 袋 / 分钟 (总计 420 袋 / 分钟 / 生产线)。
- 即使一条线路停止, 也不必中止另一条线, 单线也可工作。

Grouping Unit 分组单元

- By using the servo motor system, high speed, stability and easy maintenance grouping can be achieved.
- 通过伺服马达系统, 实现高速、稳定、便捷的保养和分组。



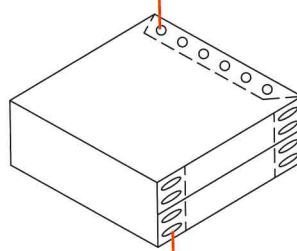
Sheet Pick-up 板料拾取

- Due to the simple and inclined structure, it is easy to feed sheets into the magazine from floor level.
- 简单和倾斜的结构, 使从地板拾取板料至储料匣非常简便。

Merit of Side-open Sheet 侧开板的优点

- It is possible to reduce the cost of the packaging material by 20-30% by adopting the side-open sheet, in comparison to the existing top-open sheet.
- Noodles can be wrapped tightly by side-open sheets.
- 与现有的顶开板相比, 采用侧开板可以减少 20—30% 包装材料成本。
- 侧开板可使面条包装牢靠。

Melting point for top (6 dots)
顶部溶点 (6 点)



Melting point for side (4 beads)
侧边溶点 (4 熔珠)

Hot-melt Gluing 热熔胶合

- Dots glue to the seam and flap to lessen the consumption of hot-melt glue, which helps save running cost expenses.
- 接缝和折翼的点式胶合减少了热熔胶的消耗量, 有助于降低运营成本。

Continuous high-speed dough mixer

连续高速混面设备

Funken Auto Feeder
Funken 自动送料机



Features:

Table-type fixed-quantity powder supply machine. Supplies highly precise amounts of powder, from normal powders to powders with strong cohesive properties.

Uses:

Most industries, including petrochemical, foodstuffs, and ceramics

特点:

台式粉体定量供应机。能够以高精度供应从一般粉体到粘着性、凝集性较强的各种粉体。

用途:

石油化学、食品、陶瓷工业等各式各样的行业

Flow Jet Mixer
流动喷射搅拌机



Features:

A consecutive mixing machine that performs actions such as continuous humidification, kneading, dissolving, and emulsifying powders in seconds while they are passing through the mixer.

Uses:

Terephthalic acid continuous kneading, continuous humidification of noodle dough, in artificial ground material production plants, in systems for continuous dissolving starch used in printing, etc.

特点:

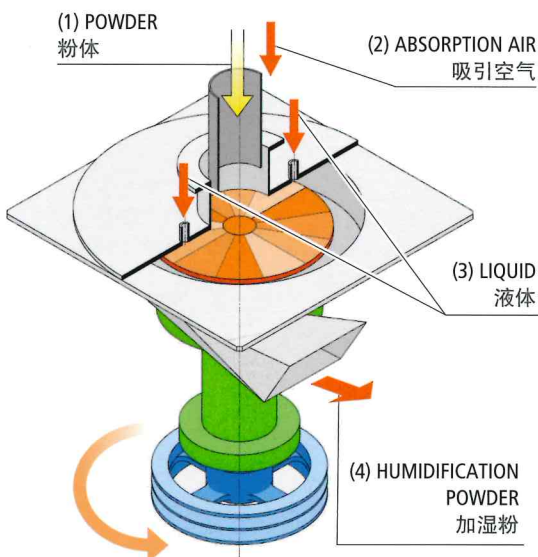
在粉体通过搅拌机内部时,能够以秒速进行粉体的连续加湿、捏合、溶解、乳化等操作的连续搅拌装置。

用途:

对苯二甲酸连续捏合、制面用连续加湿、人工地面材料制造工厂、印染用原糊连续溶解系统等

FLOW JET MIXER FIGURE OF STRUCTURE

连续喷射混合机系统构造图



SPEND(1), (2) FROM CENTRAL PART
 → (3) SPEND LIQUID
 → MIX IT ON A ROTARY DISK INSTANTLY
 → THE HUMIDIFICATION POWDER DRAINS IT FROM (4)

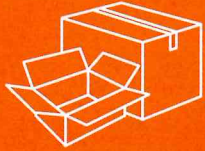
将(1)(2)从中央口投入
 → 将液体从(3)注入
 → 在旋转圆盘上瞬间混合
 → 加湿后的粉体由(4)排出

Application example in the track record

- Continuous humidification and kneading of wheat flour, rice flour, starches, etc.
- Continuous humidification of noodle dough
- Continuous kneading of wheat flour for separation of starches and proteins
- Continuous humidification of dough for rice confectionery
- Continuous humidification for soy protein granulation
- Continuous kneading of dough for pies and Danish pastries
- Continuous humidification for cake mixes
- Continuous mixing of dough for biscuit sandwich layers
- Continuous humidification of dough for rice cakes
- Continuous production of batter for tempura
- Continuous dissolution of cocoa powder, pectin, etc.

混合机的应用范围

- 面粉、米粉、淀粉等的连续加湿/捏合
- 制面用面团连续加湿
- 淀粉/蛋白分离用面粉连续捏合
- 米果用面团连续加湿
- 大豆蛋白造粒用连续加湿
- 酥皮饼、丹麦面包用面团连续捏合
- 蛋糕粉用连续加湿
- 饼干夹馅连续混合
- 粘糕用面团连续加湿
- 天妇罗用面糊液体的连续制造
- 可粉、果胶的连续溶解
- 等



Packaging
包装

Metal-in-aluminum foil detector

铝箔袋中之金属异物用检测器



Flat-belt Type NIP-IIID (Standard)

Length: 1000 mm
 Belt Width: 250 mm
 Aperture Height: 40~100 mm
 Sensor: Magnetic field type
 Height of transportation side: 800 ±50 mm
 Conveyer Speed(Changeability): 10~50 m/min.
 Display: 5.7-inch touch panel LC.
 Casing Material: SUS304

长度: 1000毫米
 皮带宽: 250毫米
 孔径高度: 40~100毫米
 传感器: 磁场型
 搬运侧高度: 800 ±50毫米
 传送带速度(可变度): 10~50米/分钟
 显示器: 5.7英寸液晶触控面板
 外壳材料: SUS304

Metal detection system comparison table

	TOK Detector	Conventional Metal Detector	X-ray Detector
Detection Method	Relative permeability	Electromagnetic wave or force lines	X-ray & image processing
Frequency in use	Audio range(50Hz~20kHz)	Electromagnetic wave(33k-1Mhz)	Electromagnetic wave (10 ¹⁶ ~10 ¹⁸ Hz)
Detection Capability			
① Normal Package	Yes	Yes	Yes
② Al evaporated Package	Yes	Yes, if no eddy current	Yes
③ Al foil package	Yes	No	Yes
(a) Fe (10mm from Sensor)	Fe 1.0mm		Depend upon shape and density
(b) SUS304 (Same as above)	SUS304 1.0mm		
④ Salt Concentration	No influence	Strong influence	
⑤ Temperature and humidity	OK -20~80 / Steam	Very complicated	Need to be adjusted for different shape & density
⑥ Conveyer Speed	Generally no need to adjust sensitivity	Need to adjust speed to avoid eddy current	Sensitivity adjustment is Necessary
Operationability			
① Sensitivity adjustment	5 level	Need to be adjusted for different shape & density.	Need to be adjustment for different shape & density.
② Warm-up time	7 Seconds	30 minutes +	Very long time
Safety			
① Influence of Electromagnetic wave & X-ray	No influence	Possible influence of electromagnetic wave	Possible influence of X-ray
② Safety cover	Not necessary	Not necessary	Necessary
Economy			
Running cost	Very low	Low	Exchanges such as periodical maintenance and X-ray tubes

金属检测系统比较表

	TOK检测器	传统金属检测器	X光检测器
检测方法	相对磁导率	电磁波或磁力线	X光和图像处理
使用频率	音频范围(50Hz~20kHz)	电磁波(33k-1Mhz)	电磁波(10 ¹⁶ ~10 ¹⁸ Hz)
检测能力			
①普通包装	可	可	可
②镀铝包装	可	可,如果没有涡电流	可
③铝箔包装	可	否	可
(a)铁(距离传感器10毫米)	铁1.0毫米		取决于形状和密度
(b)SUS304(同上)	SUS304 1.0毫米		
④盐浓度	无影响	强烈影响	无影响
⑤温度和湿度	OK -20~80℃ / 蒸汽	非常复杂	需要根据不同的形状和密度进行调整
⑥传送带速度	通常不需要调整灵敏度	需要调整速度以避免涡电流	需要调整灵敏度
可操作性			
①灵敏度调整	5等级	需要根据不同的形状和密度进行调整	需要根据不同的形状和密度进行调整
②预热时间	7秒	30分钟	时间非常长
安全性			
①电磁波和X光的影响	无影响	有可能受到电磁波的影响	有可能受到X光的影响
②防护罩	不需要	不需要	需要
经济性			
运行成本	非常低	低	定期维护和X射线管的更换等



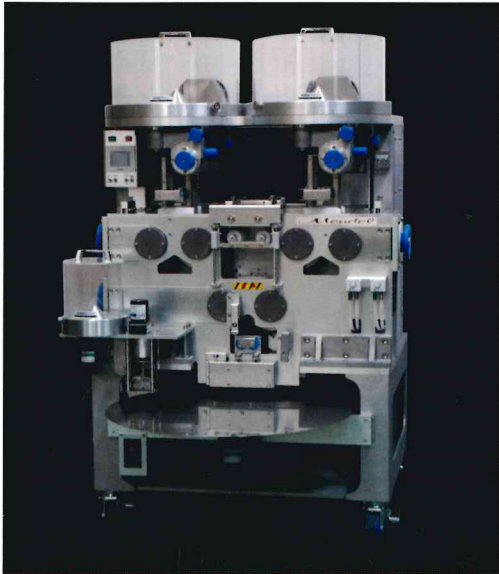
Food processing
食品加工

Automatic Fresh Noodle Making Machine "Mendel"

全自动新鲜面条机“Mendel”

Fast! Easy! Fresh!
Producing "Udon", "Soba", "Ramen" Automatically!
Just press one button, noodle is ready!

快速! 简单! 新鲜!
自动生产“乌冬面”、“荞麦面”和“拉面”!
只需按一个按钮, 面条就会做好!

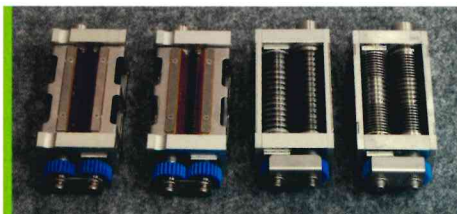


Model	M1000-50
Dimensions	600(W) x 850(D) x 1730(H) mm
Weight	300 kg
Powder hopper capacity	50 kg
Water tank capacity	20 liters
Noodle-making speed	1000 servings per hour
Operation time setting	1 to 99 minutes continuously
Power supply, power consumption	3-phase 200V, 1890W
Accessories	20-liter water tank, cutter x 1

Model	M200-20
Dimensions	525(W) x 670(D) x 1500(H) mm
Weight	210 kg
Powder hopper capacity	20 kg
Water tank capacity	10 liters
Noodle-making speed	200 servings per hour
Operation time setting	1 to 99 servings
Power supply, power consumption	Single-phase 100V, 870W
Accessories	10-liter water tank, cutter x 1

机型	M1000-50
尺寸	600(宽) x 850(深) x 1730(高)毫米
重量	300公斤
粉末料斗容量	50公斤
水槽容量	20升
制面速度	1000份/小时
运转时间设置	1至99分钟连续
电源供应、功率消耗	3相200伏、1890瓦
附件	20升水槽、切割机x 1

机型	M200-20
尺寸	525(宽) x 670(深) x 1500(高)毫米
重量	210公斤
粉末料斗容量	20公斤
水槽容量	10升
制面速度	200份/小时
运转时间设置	1至99份
电源供应、功率消耗	单相100伏、870瓦
附件	10升水槽、切割机x 1



A selection of slitters is also available so that many different kinds of noodles can be handled.

Just remove the attached slitter and replace it with the one of your choice.

还可以选择各种切丝刀, 制造不同种类之面条。
只需拆下已安装的切丝刀, 换上您想使用之切丝刀。



Food processing
食品加工

SHINWA Rice-Cooking and Individual Tray supports your production of new market:

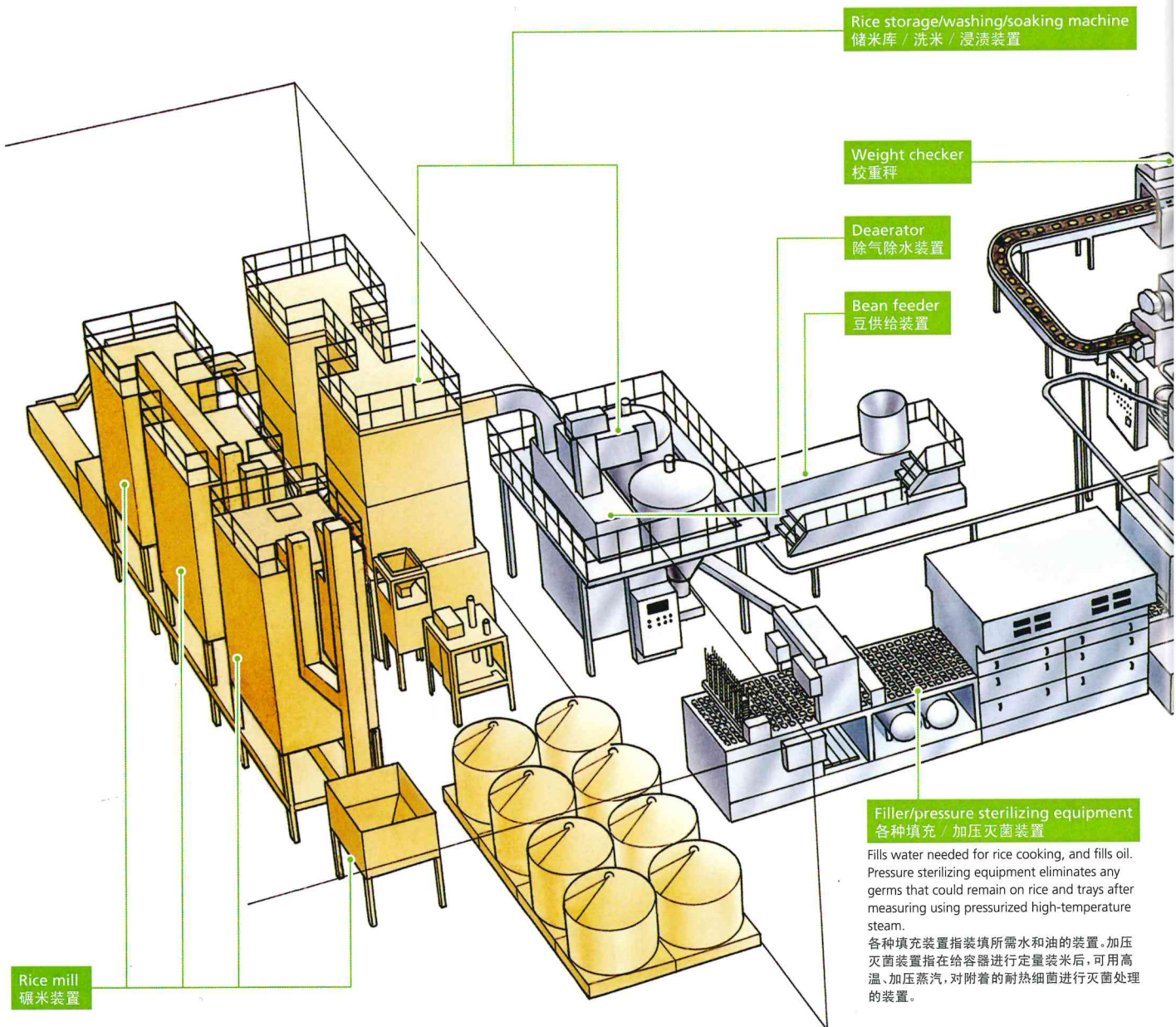
米饭市场革命！！

神和分装托盘炊饭系统将为您的“畅销产品”制

The pressure heating method consistently produces soft and delicious rice while maintaining all natural flavor.

Contamination is usually reduced with pH proportioning and retort sterilization. However, use of these methods results in flavor deterioration due to long-term high-temperature heating.

The SHINWA Rice-Cooking and Individual Tray Packing System employs a newly developed pressure heating method that performs a short-term sterilizing process. This achieves a sterile state, even eliminating thermo-resistant bacteria. In addition, by intermittently applying high-temperature steam to the rice surface, that “just-cooked” rice flavor is the best available with all the natural flavor possible.

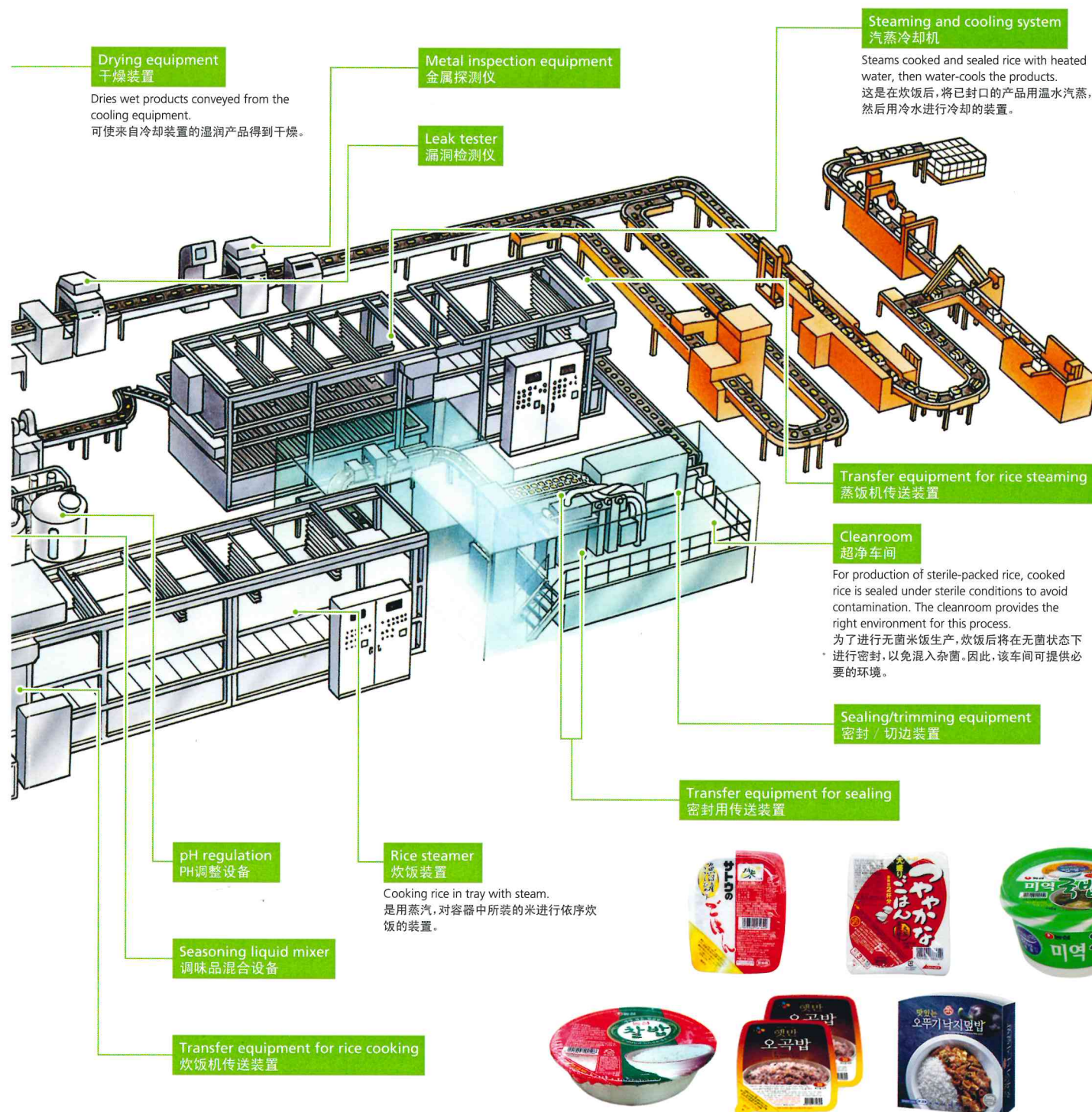


Packing System revolutionizes the industry and ble products.

作提供强有力的支持。

采用加压加热处理方式，确保了米饭膨松可口的自然风味。

在以往的蒸馏灭菌方式或通过 PH 调整进行细菌控制的方式中，若长时间高温处理，会产生有损于食品原味的结果。神和式分装托盘炊饭系统，由于开发了加压加热处理的新方式，可在短时间内进行灭菌处理，实现了包括耐热细菌在内的无菌化。在米的表面间断地喷射高温蒸汽，使米内部组织的破坏控制为最小，最大限度地实现了精美的炊饭，使您能饱尝到食品的自然风味。





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