

香港雅琪集团优质吹塑机械

akei®

AKEI HOLDINGS COMPANY LIMITED



小神童

Mini Series

www.akei.com.hk



产品介绍 Machine Features

小神童SB-40-TS是国内同类型小型吹瓶机中，速度最快、运行最稳定、温控精准、能耗最低、自动化程度最高的机型。搭载40mm螺杆的挤出系统，专门为小型吹塑制品高效生产而定制。已经广泛应用于医药包装、医用球囊、彩妆、化妆品赠品、旅游产品酒店用品包装、涂改液包装等5ml~100ml小型容器生产。

Compact, swift, stable, precise, low power consumption and high degree of automation are attributes well suited to describe the SB-40-TS. The standard 40mm extruder screw makes it ideal for the production of containers ranging from 5ml to 100ml. This model has been used to produce containers in the medical, cosmetic, body care and office stationary industries for more than three decades.



SB-40-TS:

提供单模头、双模头、三模头多种机头形式，以及分别适用“PE、PP、PA、EVOH、EVA、Surlyn(沙林料)”和“PVC、PETG、PS、PCTG、ABS”不同的挤出系统的多种解决方案。可选配自动处理瓶口、瓶底余料，以及自动锣口，自动输送的全自动方案。

The extrusion system of this model can be configured in multiple heads and is capable of processing a wide range of materials such as HDPE, PP, PA, EVOH, EVA, Surlyn, PVC, PET-G, PS, PCT-G, ABS and their derivatives. Final products and excess material can be collected manually or automatically via conveyors.

干循环速度高达3秒的高速响应，堪称小型吹瓶机中佼佼者。生产案例：HDPE5502，25ml容量，产品净重4克，每天产能达70,000瓶以上。实际能耗低于同类设备水平。

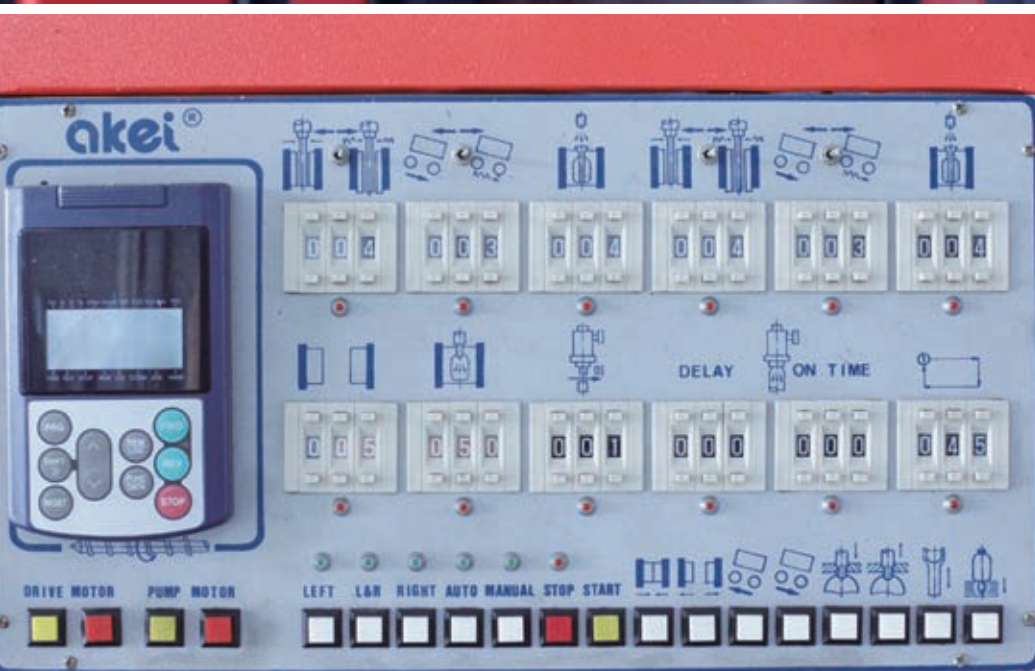
With a dry cycle time of 3 seconds, this model is known in the industry as the fastest machine in its category. The SB-40-TS boasts a recorded track record of producing 70,000 containers in 24 hours based on the following product data:

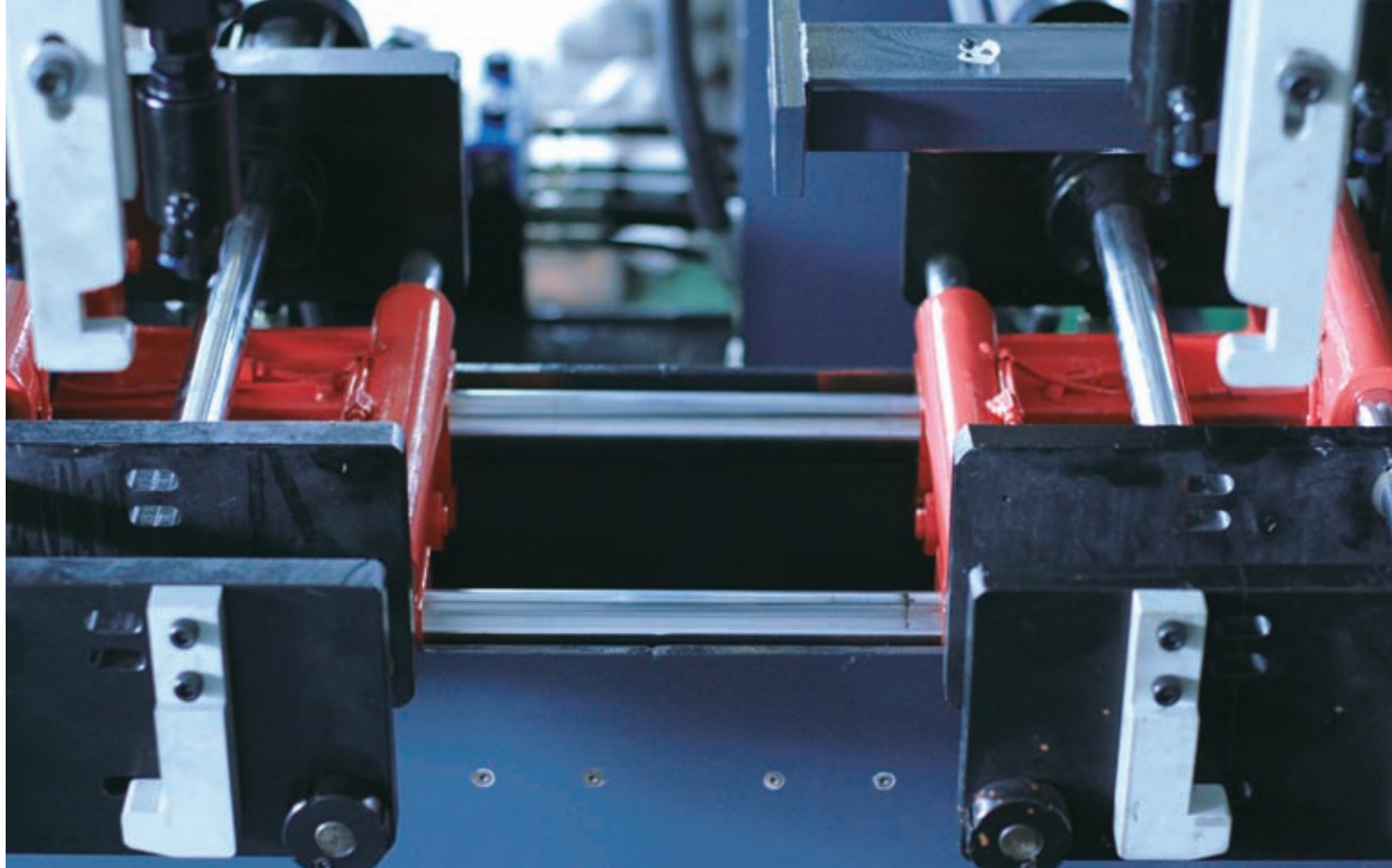
- Volume: 25ml
- Net weight: 4gr
- Material: HDPE 5502
- Machine configuration: 3 + 3 (triple head)
- Production efficiency rate: 98%



控制系统 Control System

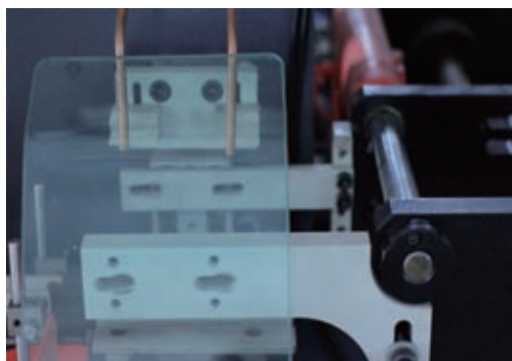
- 三菱®控制系统。
Mitsubishi® PLC control system.
- 可修改时间设定、动作状态等。
Time settings and movements are adjustable manually via thumb wheel switches.
- 可选配Eurotherm (欧陆) 控制系统。
Eurotherm® MACO COMPACT total control system available upon request.

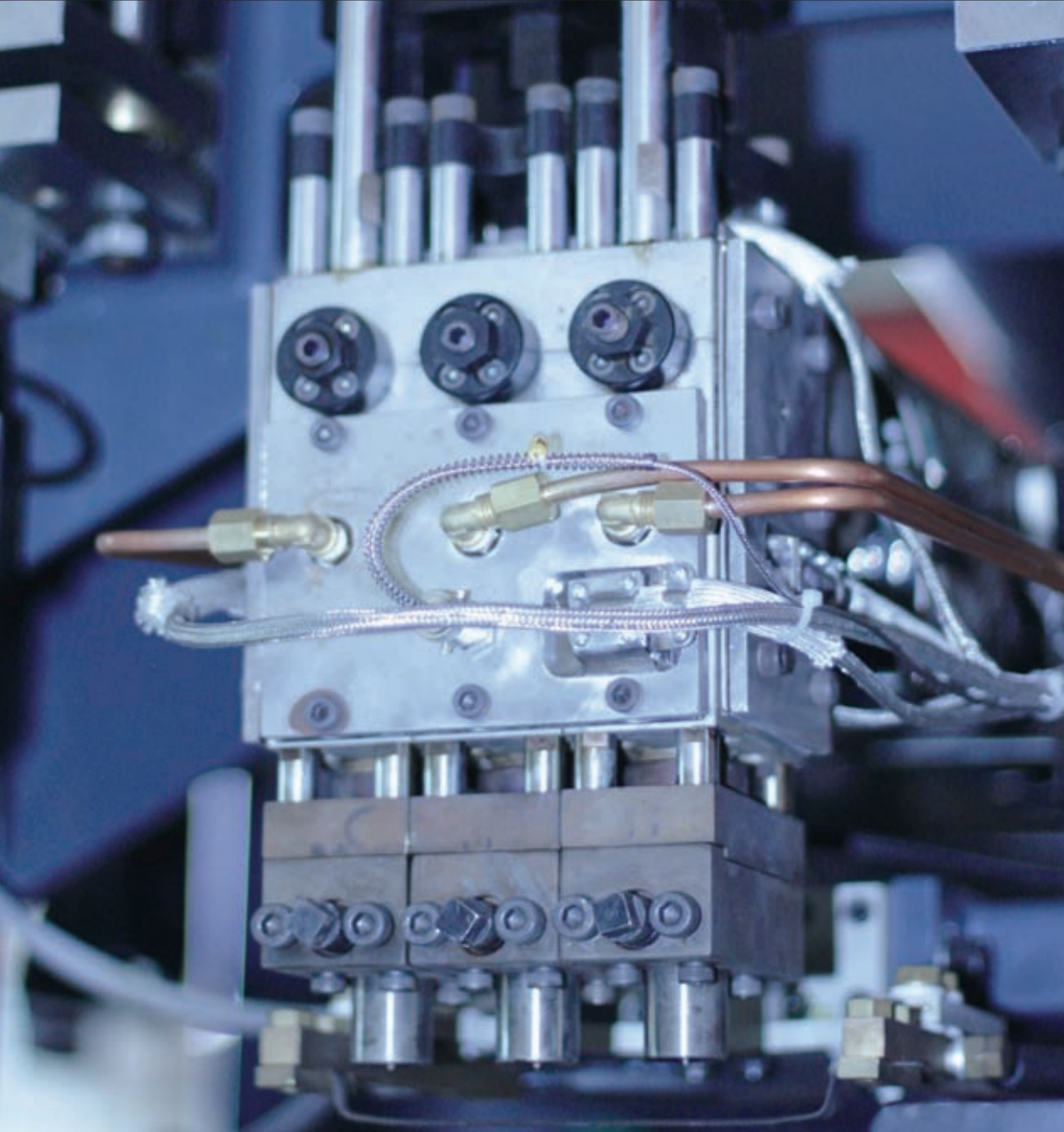




机架结构 Clamps & Carriages

- 移模/锁模动作均为沿导杆作水平直线运动。
Transfer stroke and clamping stroke on horizontal columns. Each column slides on indented rolled bronze bushings. All columns are made from chrome plated C45 steel.
- 锁模板上配接触式行程开关，确保精度，锁模可靠。
Mold opening and closing sequences are safeguarded by a contact switch in order to ensure accuracy of each motion.
- 锁模配有同步齿条装置，保证开合模同步。
Equipped with clamp synchronizing rack mechanism to ensure smooth runs on mold opening/closing sequences.
- 移模配有近接开关，保证移模精度。
Transfer stroke sequences are safeguarded by a contact switch in order to ensure accuracy of each motion.
- 移模配有双向减速掣，有效调整模板缓冲到位。
Deceleration valve reduces consumption of energy during carriages' transfer motion.
- 标配热切刀装置。
Equipped with hot knife for cutting parison(s).



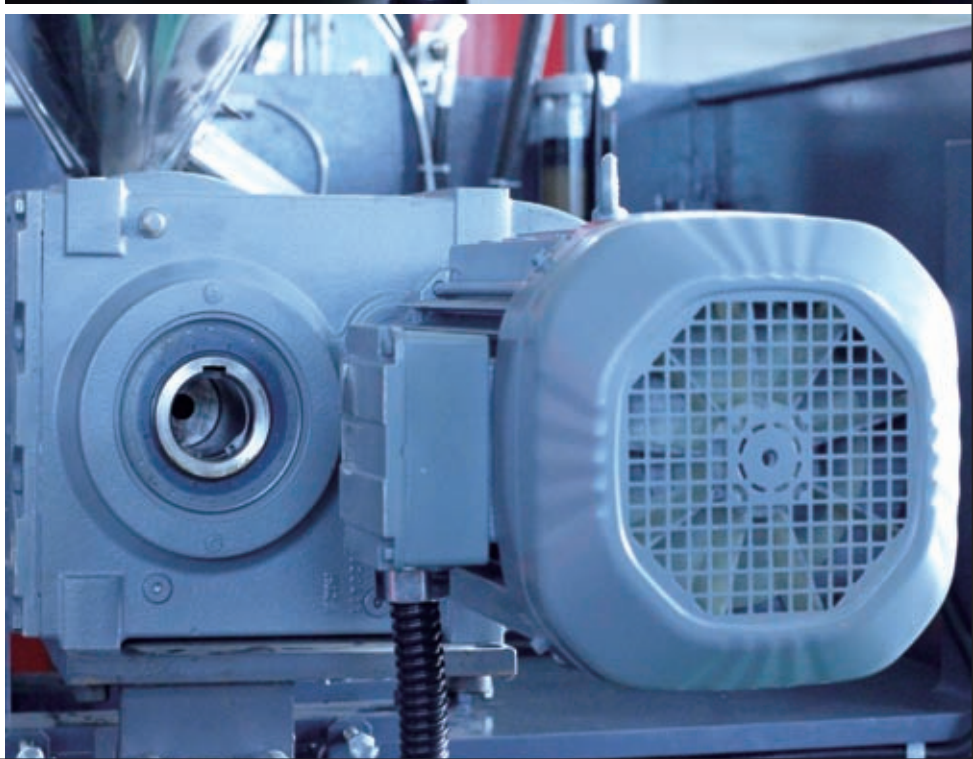
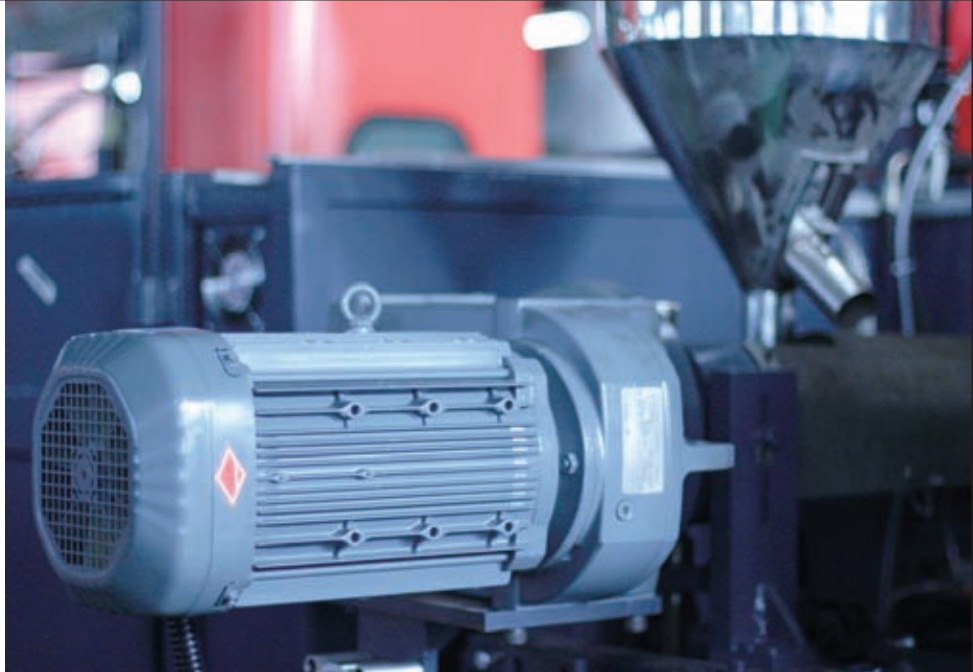


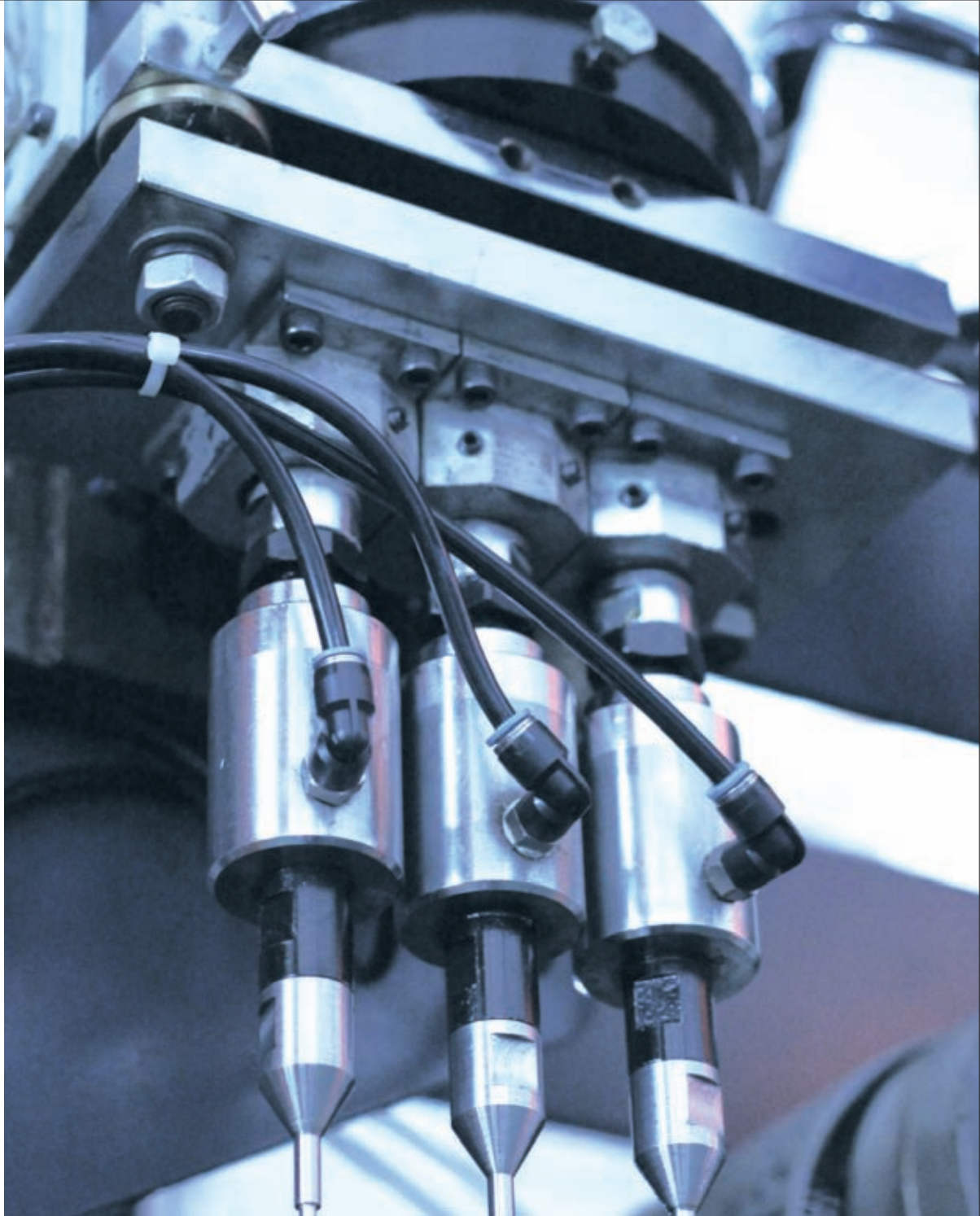
挤出机头 Extrusion Head Unit

- 正面三点料胚调节设计。
Three-point front parison adjustment control.
- 先进的中心进料式机头设计，优化的流道设计，换色快捷。
Advanced central feed extrusion, optimal flow channel design which results in faster color-change.
- 机头可选单头、双头、三头，以适应不同产品加工。
Head(s) can be configured with up to 3 parisons depending on size of container and machine model.
- 可选配2点或30点壁厚控制方案。
Optionally two-point or 30 point parison control can be supplied for accurate control of blown product wall thickness distribution.
- 电热片排布紧密，胚料受热均匀。
Multiple heating zones evenly distributed throughout different part of die head to ensure accurate temperature control of the molten plastic material.
- 机头材料采用38CrMoAlA、S136H等优质钢材，先进的工艺流程精密加工，保证长效使用。
Extrusion head is made from a combination of tempered 38CrMoAlA and stainless steel S136H. It is manufactured into shape in-house at high precision CNC center in order to ensure highest quality and performance of this part.

挤出机 Extruder Unit

- 搭载德国SEW平行轴减速马达，FUJI变频器驱动，高效传动，高精度运行，布局灵活简洁，维护简单，长寿命。
Equipped with Fuji® inverter (VFD) and SEW-EURODRIVE® parallel shaft helical gear motor. These components ensure the most efficient configuration which results in longevity of equipment, accuracy during extrusion process and easy access during maintenance process.
- 机筒材料42GrMo，内壁采用HK1粉末合金浇注，特殊工艺加工；螺杆材料42GrMo，表面镀铬加硬，螺棱喷镍基合金。螺杆采用著名专业公司量身定做的设计方案，挤出量大，混炼均匀，耐磨性能卓越。PE最大挤出量可达22kg/h。
The extruder barrel is made from 42CrMo steel alloy and its inner wall treated with powdered alloy casting. The extruder screw is also made from 42CrMo steel alloy and its surface is chrome plated while the ridges are treated with sprayed nickel alloy. The extruder screw design has been developed in order to maximize plasticizing volume and ensure uniform mix during melting process. The maximum extrusion output reaches up to 22kg/hr with virgin HDPE.
- 挤出螺杆三段加热，精确温控。
Multiple heat zones and cooling fans allow independent heating and cooling. Precision control of heating with PID and PWM precision temperature control modules for centralized heating control.





吹风系统 Blowpin Stations

- 吹风座动作采用威格士Vickers®方向阀控制，使用液压驱动。
Blowpin movements are actuated by Vickers® directional hydraulic valves.
- 吹风座4点对角调整吹风杆。
Stations are equipped with an interchangeable "T" plate, fitted with four point adjustable blow pin holder for ease of centering.
- 配有近接开关，保证定位精度。
Equipped with photoelectric sensors to ensure continuous accuracy of positioning.
- 吹风杆具备快速排气功能。
Water-cooled, double-wall design blowpins for rapid venting.

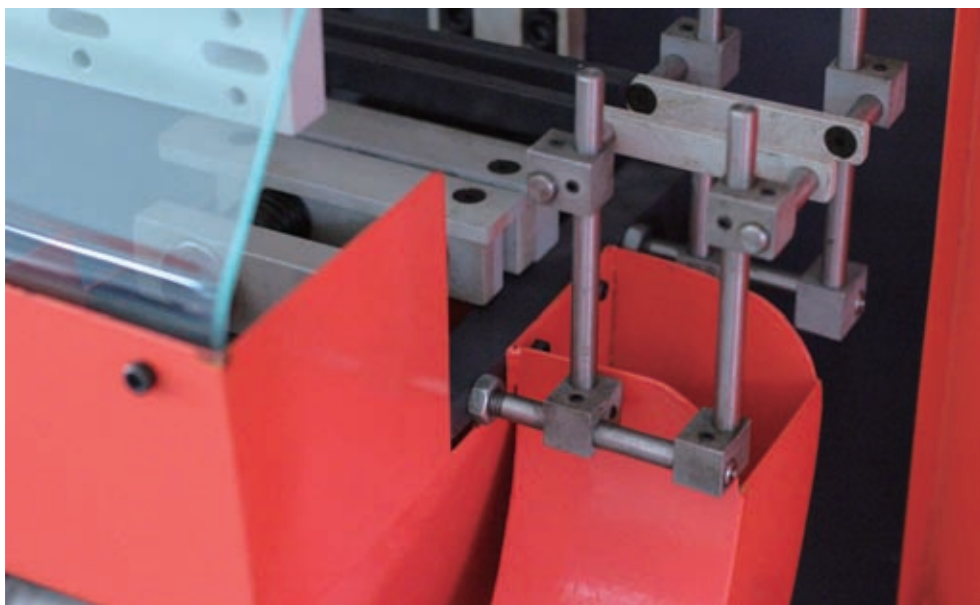
液压系统 Hydraulic Components

- 威格士Vickers®液压阀、叶片泵。
Vickers® directional valves and main system vane pump.
- 佛山神威®油冷却器。
KAMUI FS® water-cooled heat exchanger in order to maintain hydraulic oil at optimal working temperatures.
- 可选配液压油预热装置. 可选配液压油温与液位探测装置。
Hydraulic oil pre-heat feature and automatic temperature control available upon request.



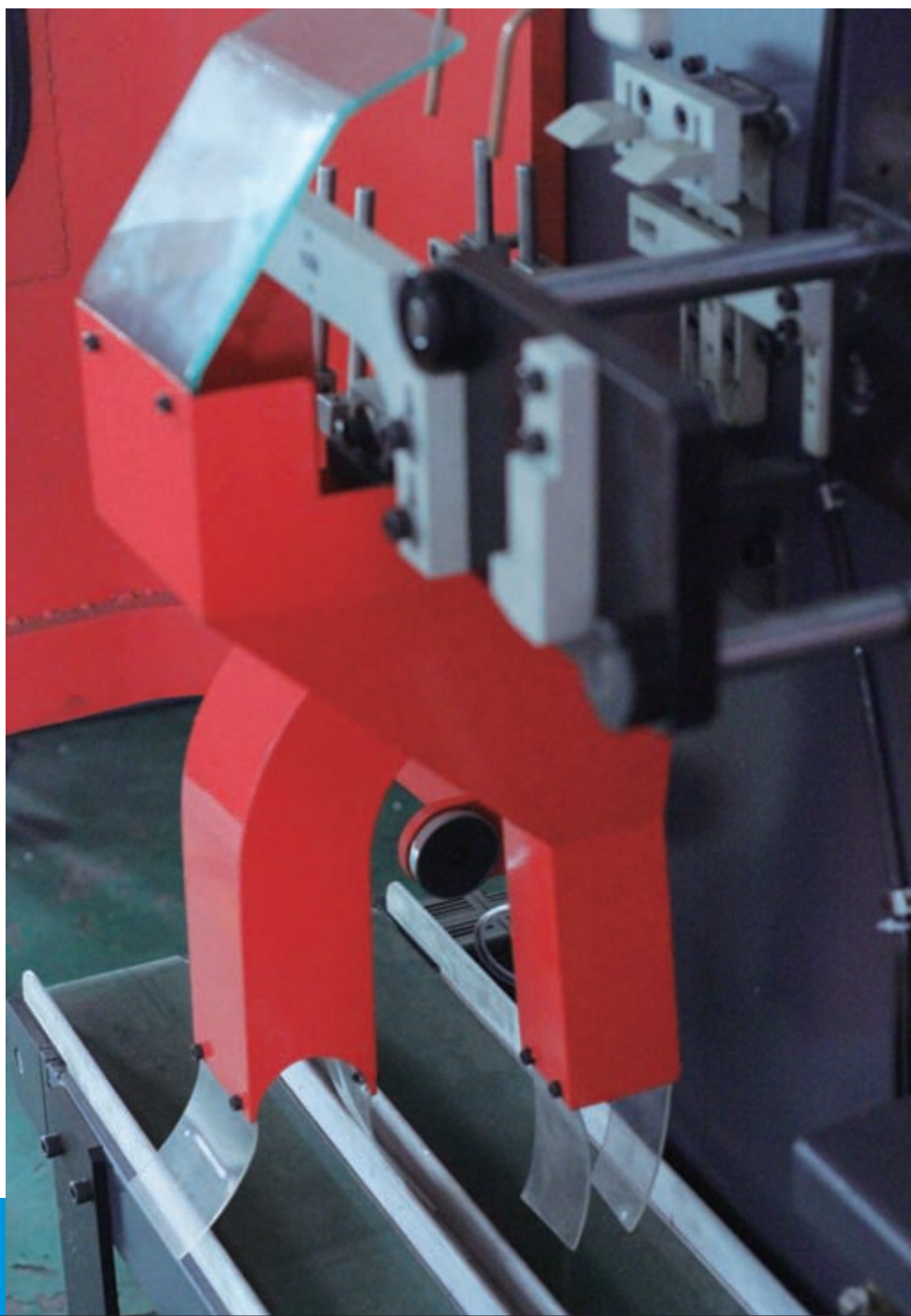
余料处理系统（选配） Deflashing

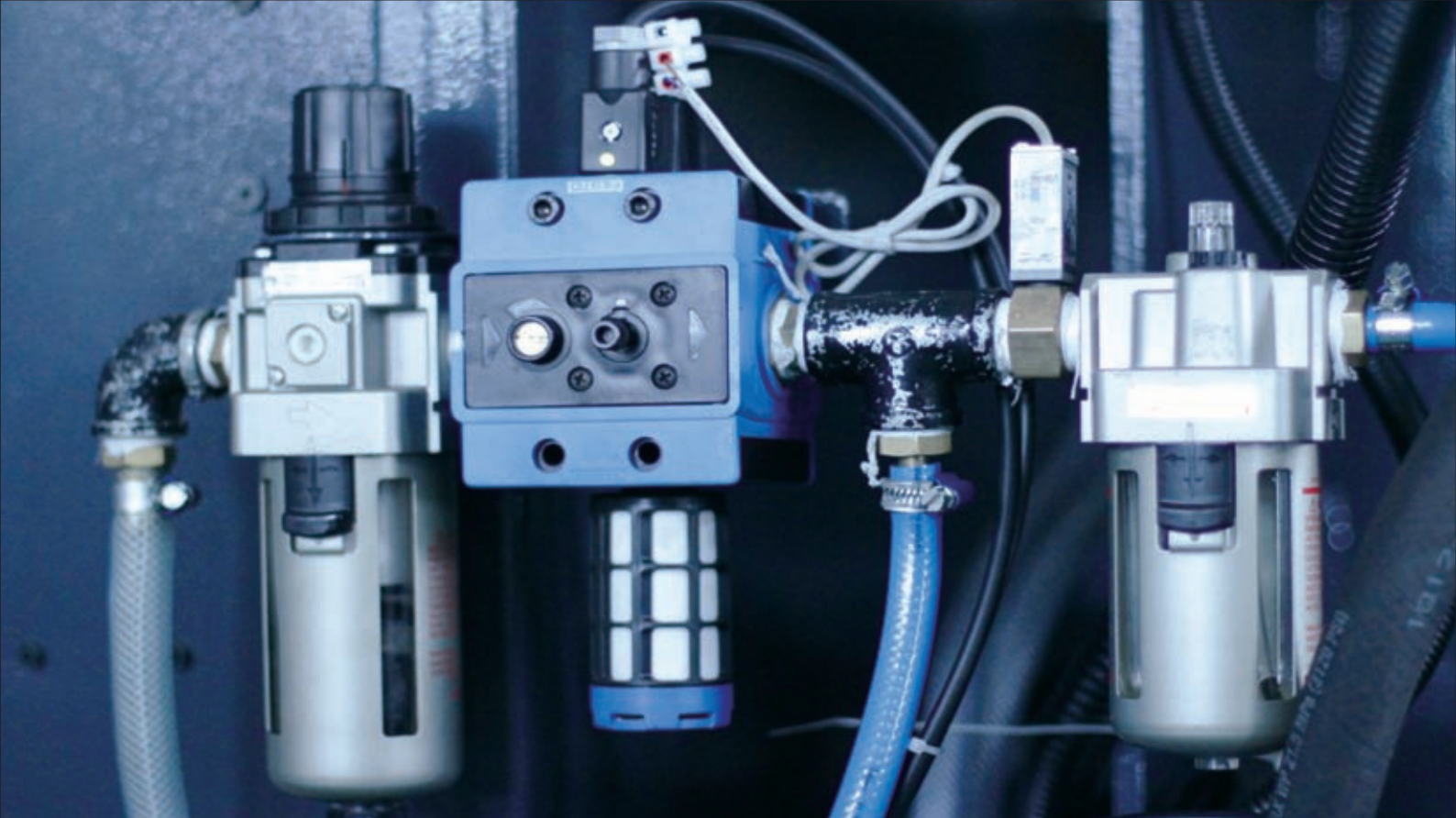
- 瓶口和瓶底余料均由气动方式去除。
Deflash movements actuated by pneumatic cylinders.
- 可加装自动锣口装置。
Independent or in-line spin trimmer unit available upon request.



导出/输送系统（选配） Oriented Discharge/ Conveyor System

- 配漏斗导出产品和水口。
Finished products and scraps are discharged through chutes.
- 产品和水口分别由双向输送带双向输送。
Finished products and scraps are collected underneath deflash stations on a two-way conveyor and transported to the opposite direction.

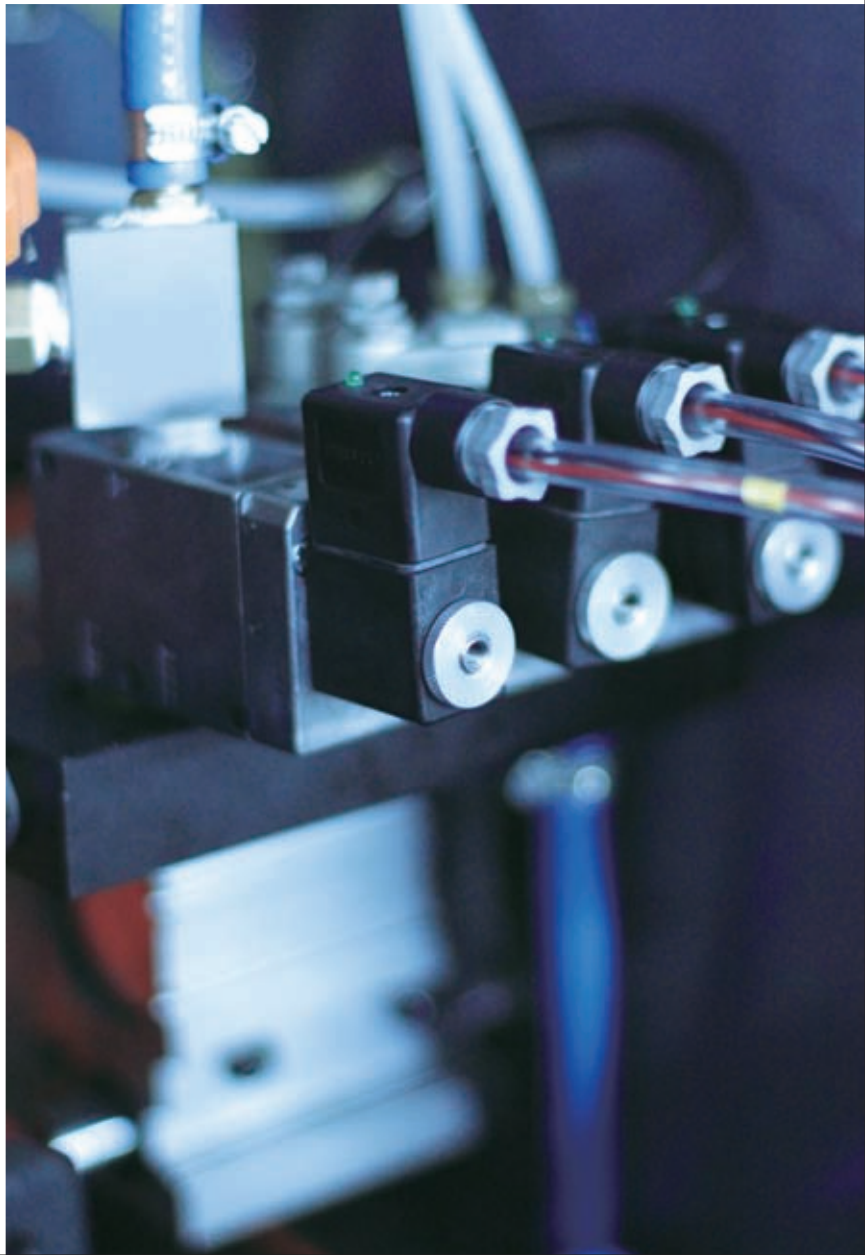




气动装置

Pneumatic Components

- 独立Dwyer®调节阀控制料筒气压、吹气气压、余料冷风气压及冷风针流量。
Independent Dwyer® gauges for flow adjustment of parison support air and parison decompression.
- 快利图Festo®气动控制阀。
FESTO® pneumatic controls.
- SMC®标准气缸、薄型气缸及滑尺型无杆气缸。
FESTO® or SMC® cylinders.





电路配置 Electrical Components

- Fuji® 变频器。
Fuji® VFD.
- Schneider® 电磁接触器。
Schneider® AC contactor.
- Schneider® 热过载保护继电器。
Schneider® thermal overload protection relays.
- Allen-Bradley® 断路器。
ABB® circuit breakers.
- 三菱程控器。
Mitsubishi® PLC control system.
- 可选配Eurotherm (欧陆) 控制系统。
Eurotherm® MACO COMPACT total control system available upon request.
- 明威DC电源。
MingWei® DC power supply.
- 电箱配有排风扇，散热良好。
Electrical cabinet equipped with cooling fans to regulate temperature. Optionally air conditioner unit can be installed for improved cooling.

润滑系统 Lubrication

- 标配为手动润滑泵，可选自动润滑系统。
Manual lubrication pump.



其他 Others

- 设备喷涂：机器采用波纹油漆，颜色符合环保和安全规范要求，防锈处理，重要部件采用电泳等先进工艺，耐久和耐候性好。
All coated parts are shot-blasted before paint application or anodizing. Texture paint is applied for machine framework and large parts. Whenever possible, mechanical parts are anodized for improved corrosion resistance.
- 可根据客户特殊要求选配：锣口机、测漏机、金检机、视觉检测、称重、理瓶机、贴标机、装袋（箱）机、打包机、码垛和缠绕机、输送系统等自动化设备。
Spin trimmer, leak tester, orientation device, packing robots and any other ancillary equipment necessary for a turn-key operation are available upon request.



雅琪塑胶机器制造厂有限公司

AKEI PLASTIC-MACHINE MFY.LTD.

九龙青山道688-690号, 嘉名大厦1楼A,B,C,D,E,F座
1/F.,Block A,B,C,D,E,F Ka Ming Fty. bldg.,
688-690, Castle Peak Rd., Kowloon, Hong Kong.
Tel: (852) 27411312, 27439273, 27437318, 27437319
Fax: (852) 2785 9560

E-mail: akei@akei.com.hk

乐仕塑胶吹瓶厂有限公司

ROXY-BANNY PLASTIC BOTTLES MFY. LTD.

星航实业有限公司

MARS LINE INDUSTRIAL LTD.

中之杰有限公司

CENTRALEADER LIMITED

雅琪集团工业城

AKEI INDUSTRIAL PARK

开平雅琪塑胶机械模具厂

中国广东省开平市赤坎镇五龙工业区

营业部电话: (0750) 2168888

传真: (0750) 2168889

邮编: 529367

福永星航塑胶制品厂

MARS LINE PLASTICS OF FU YONG

中国广东省深圳宝安福永镇白石厦东工业区

营业部电话: (0755) 7307979 7307568

传真: (0755) 7307845

邮编: 518103

上海市

手机:013827012009

电邮:shanghai@akei.com.cn

湖南省

手机:013827012100

电邮:hunan@akei.com.cn

福建省

手机:013827012101

电邮:fujian@akei.com.cn

广西省

手机:013827012102

电邮:guangxi@akei.com.cn

天津市

手机:013827012010

电邮:tianjin@akei.com.cn

海南省

手机:013827012103

电邮:hainan@akei.com.cn

湖北省

手机:013827012104

电邮:hubei@akei.com.cn

安徽省

手机:013827012105

电邮:anhui@akei.com.cn

浙江省

手机:013827012106

电邮:zhejiang@akei.com.cn

江苏省

手机:013827012107

电邮:jiangsu@akei.com.cn

陕西省

手机:013827012108

电邮:shanxi@akei.com.cn

河南省

手机:013827012109

电邮:henan@akei.com.cn

河北省

手机:013827012110

电邮:hebei@akei.com.cn

山东省

手机:013827012112

电邮:shandong@akei.com.cn

辽宁省

手机:013827012113

电邮:liaoning@akei.com.cn

黑龙江省

手机:013827012114

电邮:hlj@akei.com.cn

四川省

手机:013827012115

电邮:sichuan@akei.com.cn

重庆市

手机:013827012116

电邮:chongqing@akei.com.cn

云南省

手机:013827012118

电邮:yunnan@akei.com.cn

江西省

手机:013827012119

电邮:jiangxi@akei.com.cn