公司总部及各办事处联系方式

中国华南研发制造基地

广东拓斯达科技股份有限公司

地址：广东省东莞市大岭山镇大塘朗创新路2号
电话：86-769-8305 0999
传真：86-769-8584 5562
邮箱：marketing@topstarltd.com

South China R&D and Manufacturing Base

Guangdong Topstar Technology Co., Ltd.

ADD : No.2 Chuangxin Road, Datanglang, Dalingshan Town, Dongguan City, Guangdong Province.
TEL: 0086 769 8305 0999
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E-mail:marketing@topstarltd.com

中国华东研发制造基地

江苏拓斯达机器人有限公司

地址：江苏省苏州市吴中经济开发区郭巷街道淞葭路1999号
电话：0512-8686 4305
手机：185 0156 0757

East China R&D and Manufacturing Base

Jiangsu Topstar Robot Co., Ltd.

ADD: No.1999 Songjia Road, Guoxiang Street, Wuzhong Economic Development Zone, Suzhou City, Jiangsu Province
TEL: 0512-8686 4305
MOB: 185 0156 0757

苏州拓斯达智能装备有限公司

地址：江苏省苏州市吴中经济开发区郭巷街道淞葭路1999号C栋1楼
电话：0512-5288 9310
手机：185 0156 0757

Suzhou Topstar Intelligent Equipment Co., Ltd.

ADD: 1F, Building C, No.1999 Songjia Road, Guoxiang Street, Wuzhong Economic Development Zone, Suzhou City, Jiangsu Province
TEL: 0512-5288 9310
MOB: 185 0156 0757

宁波拓晨机器人科技有限公司

地址：浙江省余姚市风山街道舜汇东路93弄
电话：86-574- 8610 5571
传真：86-574- 8610 5571
手机：137 7723 2779

Ningbo Topstar Robot Technology Co., Ltd.

ADD: Lane 93, Shunhui East Road, Fengshan Street, Yuyao City, Zhejiang Province
TEL: 86-574-8610 5571
FAX: 86-574-8610 5571
MOB: 137 7723 2779

华中服务办事处

地址：重庆市渝北区融创中央广场5栋1105室
手机：186 0209 6012

Central China Service Offices,China

ADD: Room 1105, Building 5, Rongchuang Central Plaza, Yubei District, Chongqing
MOB: 186 0209 6012

华北服务办事处

地址：天津市西青区精武镇才智道12号德维洛浦产业园C座4-2-3
手机：139 2957 0939

North China Service Offices,China

ADD: 4-2-3, Block C, Deweiluopu Industrial Park, No.12 Caizhi Road, Jingwu Town, Xiqing District, Tianjin
MOB: 139 2957 0939

越南服务办事处

地址：北江市黎利坊雄王路3号TUTACENTER一楼
手机：186 0209 6307 / 0084-346 860 156

Vietnam Service Office

Address: 1st Floor, TUTACENTER, No. 3, Xiongwang Road, Lilifang, Bac Giang
MOB: 186 0209 6307 / 0084-346 860 156

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全国统一客服热线
Domestic Service Hotline
400-096-8005
Http://www.topstarltd.com

TSDSC2023-A

TOPSTAR 拓斯达

TS系列注塑机

TS SERIES INJECTION MOLDING MACHINE

机铰式液压伺服驱动
Toggle Hydraulic Servo Driven

TS TS/G

股票代码 Stock Code 300607

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COMPANY PROFILE

公司简介

广东拓斯达科技股份有限公司（简称：拓斯达，股票代码：300607）成立于2007年，总部位于广东省东莞市大岭山镇，注册资本4.26亿元。

拓斯达坚持“让工业制造更美好”的企业使命，通过以工业机器人、注塑机、CNC为核心的智能装备，以及控制、伺服、视觉三大核心技术，打造以核心技术驱动的智能硬件平台，为制造企业提供智能工厂整体解决方案。截至2023年01月，公司已在全国设有近40家办事处，触达客户超20万家，服务客户超15000家。

Guangdong Topstar Technology Co., Ltd. (abbr. Topstar, stock code: 300607) was established in 2007 and headquartered in Dalingshan Town, Dongguan City, Guangdong Province with a registered capital of 426 million yuan.

Topstar insists on the corporate mission of "making industrial manufacturing better". Through industrial robots, injection molding machines, CNC as the core of intelligent equipment and controllers, servo drives, and vision system as three core technologies, to create a core technology-driven intelligent hardware platform for manufacturing enterprises to provide intelligent factory solutions. As of January 2023, the company has set up nearly 40 offices across the country, reaching more than 200,000 customers and serving more than 15,000 customers.

注册资本 Registered Capital **4.26** 亿元

办事处近 Offices **40** 家

服务客户超 Serving Customers **15000** 家

授权专利 Patents **672** 项

软件著作权 Software Copyright **77** 项

研发技术人员近 R&D Technicians **1000** 人

公司是国家高新技术企业、广东省机器人骨干企业、广东省服务型制造示范企业、东莞市“倍增计划”试点企业，建有广东省企业重点实验室、广东省工程技术研究中心、广东省企业技术中心、广东省博士工作站、东莞市技师工作站等人才及科研平台。公司荣获“东莞市政府质量奖”“东莞市先进集体”“东莞市友善企业”等奖项，并入选“2021中国智能制造50强”“2021广东企业500强”“2021工业机器人TOP50”等榜单。

截至2023年01月，拓斯达拥有授权专利672项，其中发明专利88项；各类软件著作权77项。公司多项产品荣获广东省名牌产品、广东省名优高新技术产品，并通过欧洲CE认证。

Topstar is a National High-Tech Enterprise, Guangdong Province Robot Backbone Enterprise, Guangdong Province Service-oriented Manufacturing Demonstration Enterprise, and Dongguan Doubling Plan Enterprise. We have built key laboratories in Guangdong Province, Guangdong Engineering Technology Research Center, Guangdong Enterprise Technology Center, Guangdong Doctoral Workstation, Dongguan Technician Workstation, and other talents and scientific research platforms. Topstar won the "Dongguan Government Quality Award", "Dongguan Advanced Collective", "Dongguan Friendly Enterprise", and other awards. And it was selected in the "Top 50 Intelligent Manufacturing in China in 2021", "Top 500 Guangdong Enterprises in 2021", "Top 50 Industrial Robots in 2021", and other lists.

As of January 2023, Topstar has 672 authorized patents, including 88 invention patents; 77 software copyrights of various types. Many of our products have won the Guangdong Famous Brand Products, and Guangdong Famous High-tech Products, and passed the European CE certification.

Company Culture
企业文化

企业使命
Enterprise Mission

让工业制造更美好

Make Industrial Manufacturing Better

企业愿景
Enterprise Vision

助力100万制造企业实现智能制造

助力100万工程师服务于智能制造

To help millions of manufacturing enterprises to realize intelligent manufacture
To help millions of engineers serving the intelligent manufacture

企业定位
Enterprise Positioning

以核心技术驱动的智能硬件平台

Intelligent hardware platform driven by core technology

核心价值观
Core Values

全心全意为客户服务

群体奋斗，群体成功

Wholeheartedly for Customer Service
Together We Strive,Together We Achieve

组织气质
Team Spirit

开放协同，因我不同

Cooperate but respect personality

拓斯达不是雇佣和解雇型企业，而是打造创业型平台，集众人之力，实现凭一己之力所无法达成目的的平台，其核心精神是"分享"。——《拓斯达宣言》

TOPSTAR is not a hiring or dismissal enterprise, but aim to create a business platform, which setting the power of everyone to achieve the goal which can not be achieved by their own. Its core spirit is "share".

Qualification Evaluation
资质评定

拓斯达坚持技术为王的经营理念，先后取得了各项高新技术企业的资质和认证，为客户提供先进和高端的产品。

国家级高新技术企业认证、欧盟CE认证、ISO9001质量体系认证、广东省名牌机器人、广东省“守合同重信用”企业、粤港澳大湾区联合创新中心创新基地、累计产品技术专利464项、广东省级企业技术中心、华南理工大学产学研合作基地、校企合作实践基地....

Topstar adheres to the bussiness philosophy,which puts technology in the dominant position. It has successively obtained many qualifications and certifications of high-tech enterprises, and provided the most advan and high-end product to customers.

National high-tech enterprise certification、CE Certification、ISO9001 Quality System Certification 、Guangdong Province Top Brand Robot 、 Guangdong Province "contracts observing and credit honoring" enterprises、Guangdong-Hong Kong-Macao Greater Bay Area Joint Innovation Center、464 technology patenes for products、Guangdong province enterprise technology center 、South China University of technology production and research cooperation base、School-enterprise cooperation practice base....

2019年最具成长性
高端制造产业上市公司

维科网
年度品牌影响力企业奖

DEVELOPMENT HISTORY

发展历程

2008
开拓市场 创新研发辅机

研发出新型节能三机一体机；

研发出直接冷却160度水温机，降温速度更快。

2008
Expanded the market and conducted innovative R&D on auxiliary equipment

Developed new type of energy-saving three-in-one equipment.

Developed 160 ℃ direct cooling water circulating temperature controller, increasing cooling efficiency.

2007
50万注册资金起步

拓斯达以50万元资金注册成立；

提出“打造一流品质”的企业和产品定位。

2007
Company established with a registered capital of RMB 500,000

Topstar was incorporated with a registered capital of RMB 500,000.

“Creating first-class quality” enterprise and product positioning proposed.

2009
提高产品自产率 客户达1000家

成立拓斯达商学院；

市场成交客户量突破1000家；

成立钣金工厂，提高自产率，产能再次提升。

2009
Increased independent production capacity; more than 1,000 customers

Established Topstar Business School.

Customer base exceeds 1,000 customers.

Established sheet metal factory, enhancing independent production capacity and rate.

2011
注塑自动化全套解决方案运营商

自主研发的三轴、五轴伺服机械手上市，获得广泛好评；

确立整体注塑自动化解决方案的发展方向，提出主动服务理念；

成功举办“华南塑料工业高端论坛”。

2011
Became injection molding automation total olution operator

Launched independently developed three-axis and five-axis servo manipulators in the market, which gained wide market recognition.

Established the development direction of the overall injection molding automation solution, and launched active service concept.

Successfully held South China Plastics Industry High-end Forum.

2013
引入战略投资 多领域拓展自动化应用场景

投资3亿扩产自动化制造基地，项目纳入东莞市重点建设项目；

组建自动化项目部，布局打磨、冲压、压铸等多领域自动化应用场景；进行股份制改革，核心员工持股。

2013
Introduced strategic investments and developed multi-field automation

Invested RMB 300 million to expand the automatic manufacturing base’s production capacity; the project was included in the key construction project of Dongguan City.

Established the Automation Project department, set up automation in grinding, stamping, die-casting, and other fields, conducted joint-stock system reform, and initiated share ownership by core employees.

2015
掌握核心技术 研发工业机器人

掌握控制系统核心技术，布局工业机器人研发；

形成工业机器人、自动化解决方案、整厂水电气系统、配套设备等多领域智能制造体系。

2015
Acquired expertise in core technologies and conducted R&D on industrial robots

Mastered the core technology of the control system and formulated R&D plan for industrial robots.

Established a multi-field intelligent manufacturing system including industrial robot, automation solution, whole plant water and electrical system, and ancillary equipment.

2018
新园区 新使命

发布企业全新使命、愿景、价值观，确定新组织气质；

迁入新园区，举办首届全球开放日；

优化产业布局，收购野田智能，筹建苏州生产研发基地、置地松山湖。

2018
Relocated to the new park and released new company mission

Released the company’s new mission, vision, and values and defined the new organizational outlook.

Relocated to the new park and held the first Global Open Day session.

After optimizing the industrial layout, the company acquired Noda, prepared for the construction of Suzhou Production and R&D Base, and purchased land in Songshan Lake area.

2021
强战略 定核心

提出“以核心技术驱动的智能硬件平台”战略定位；

确立以工业机器人、注塑机、CNC数控机床为三大核心产品；

发行可转债募资6.7亿元用于建设智能制造整体解决方案研发及产业化项目；

拓斯达智能设备总部基地（大岭山连平）项目完成摘牌；

布局五轴高端数控机床赛道，控股埃弗米。

2021
Strengthened strategies and initiated platform-oriented business

Launched “integration robot” on the automation equipment integrated service platform.

Established industrial robots, injection molding machines and CNC as the three core products.

Raised RMB 670 million by issuing convertible bonds to construct R&D facilities and to develop total intelligent manufacturing industrialization projects.

Completed and delisted Topstar intelligent equipment headquarter base project (Lianping, Dalingshan).

Layout the five-axis high-end CNC machine tool track, holding AFM company.

2010
开发机械手 布局全国市场

开发机械手产品，成为自动化系统输出全套产业链运营商；

设立无锡办事处，辐射华东，开启全国市场布局；

与清华大学合作，引入先进企业管理理念。

2010
Developed manipulator products and expanded market across China

Developed manipulator products and become a comprehensive automation system industry chain operator.

Established Wuxi office to cover markets in East China and launched the national market layout.

Introduced advanced enterprise management concept in partnership with Tsinghua University.

2012
认证高新企业 布局全球市场

获得国家高新技术企业称号；

布局全球市场，产品销往东南亚、欧洲、南美洲等地；

与华南理工大学签署产学研合作协议。

2012
Certified as a high-tech enterprise and established global market layout

Awarded the National High-tech Enterprise title.

Established global market layout with products sold in Southeast Asia, Europe, South America, and other regions.

Signed an industry-university-research cooperation agreement with South China University of Technology.

2014
挂牌新三板 响应“机器换人”政策

挂牌新三板，实现同步定增；

率先响应“机器换人”政策，提出一年回本的自动化理念；

华北、华中营销中心成立，全国新设20余办事处。

2014
Listed in the new OTC market and took the lead in “machines replacing humans” policy

Listed on the new OTC market and realized concurrent directional add-issuance.

Took the lead in the “machines replacing humans” policy and proposed 1-year ROI on automation concept.

Established North China and Central China marketing centers and more than 20 new offices across China.

2016
整合上下游资源 打造智能生态圈

自主研发六轴工业机器人本体上市；

提出打造软件研发、本体设计、集成方案、整厂自动化四位一体的智能制造生态圈理念；

整合上下游资源，与ABB签订战略合作协议，深入展开合作。

2016
Integrated upstream and downstream resources and created intelligent ecosystem

Launched the independently developed six-axis industrial robots in the market.

Proposed the concept of creating a four-in-one intelligent manufacturing ecosystem of software R&D, robot design, integration solution, and whole-plant automation.

Integrated upstream and downstream resources and signed strategic cooperation agreement with ABB to carry out in-depth cooperation

2018
拿结果 强组织 做价值

驼驮科技成立，布局产业互联网；

公开增发募集资金6.5亿元用于苏州生产基地建设；

拓星辰系列上市，拓星河1号进入Beta阶段。

2018
Targeted improved results, strengthened the organization, and realized value generation

Established TUOTUO Technology to layout the industrial internet.

Raised RMB 650 million through public secondary offering.

Launched TXC series in the market and TXH No.1 entered the beta stage.

2017
登陆创业板 实施员工持股计划

创业板上市，股票代码300607，实施员工持股计划惠及200余人；

打造以工业机器人为核心，软硬件结合的智能制造综合服务体系，通过四部两院组织架构输出智能制造整体解决方案；

导入SAP信息化管理及任职资格体系，提升管理团队效能。

2017
Listed on GEM and expanded employee stock ownership

Listed on GEM with stock code 300607, and expanded stock ownership to more than 200 employees.

Built a comprehensive intelligent manufacturing service system integrating hardware and software with industrial robots at the core, and launched total intelligent manufacturing solutions by organizationally restructuring four departments and two academies.

Introduced SAP information management and qualification system to improve management and operational efficiency.

2019
Targeted improved results, strengthened the organization, and realized value generation

Established TUOTUO Technology to layout the industrial internet.

Raised RMB 650 million through public secondary offering.

Launched TXC series in the market and TXH No.1 entered the beta stage.

2020
新产品 新赛道

组建自有研发团队，开拓注塑机业务线，实现注塑业务整体解决方案全产品闭环；

开拓CNC数控机床业务线；

董事长吴丰礼参加习近平总书记主持召开的企业家座谈会；

服务客户数突破10000家。

2020
Launched new products and started on a new track

Established independent R&D team, launched the injection molding machine business line and provided total solutions to injection molding businesses.

Exploit the CNC machine tool business line.

Chairman Wu Fengli attended the entrepreneurs’ symposium presided over by President Xi Jinping.

Customer base exceeds 10,000 customers.

2022
扩产品 强建设

TMII机铰式液压伺服驱动注塑机、GMU-600五轴联动加工中心、TRH002-400-150-A系列高速机器人齐面市；

拓斯达智能设备总部大岭山连平基地二期顺利摘牌；

拓斯达松山湖研发总部基地喜封金顶；

拓斯达小程序上线；

智能设备总部基地一期主体结构喜迎封顶。

2022
Products expansion and strong construction

Toggle hydraulic servo-driven injection molding machine TM Ⅱ, five-axis machining center GMU-600 and high-speed robot TRH002-400-150-A come onto the market together.

Topstar intelligent equipment headquarters in Dalingshan Lianping Base Phase Ⅱ accomplished.

Topstar Songshan Lake R&D headquarters infrastructure construction base is finished.

Topstar mini program is on line.

The main structure of the first phase of the intelligent equipment headquarters base was completed in delight.

苏州吴中经济开发区——华东研发制造基地

Suzhou Wuzhong Economic Development Zone – East China R&D and Manufacturing Base

Introduction of Injection Molding Machine Business Unit

注塑机事业部介绍

让注塑制造更高效，让工业制造更美好

Make injection molding manufacturing more efficient, make industrial manufacturing better

拓斯达注塑机事业部是国内唯一拥有注塑机到辅机全套设备自研自产体系的注塑装备机构，具有自研率高、用户群广、集成经验丰富、可整厂实施四大优势。

坚持“让工业制造更美好”的使命，立足于拓斯达智能装备平台，汇聚30余年品牌的注塑机传承，致力推进注塑机和注塑系统工程更智能，为客户提供注塑全流程、全周期产品服务。

Topstar Injection Molding Machine Business Unit is the only domestic injection molding equipment organization with an "injection molding machine and auxiliary equipment self-research and self-production system". Its advantages are high self-research rate, wide user base, integration experience and implementation of the whole plant.

Topstar insists on the mission of "making industrial manufacturing better". Based on the Topstar intelligent equipment platform and more than 30 years of brand injection molding machine heritage, we are committed to promoting more intelligent injection molding machines and system engineering, to provide customers with the whole process and the whole cycle of injection molding product services.

研发理念

R&D Concept

拓斯达注塑机研发理念聚焦“系统化、通用化、精密化、性价比”。
Topstar injection molding machine research and development concept focus on "systematization, universalization, precision, cost-effectiveness".

系统化是指通过硬件注塑机机械手辅机的配合，实现如“机械手跟踪锁模位置补偿”提高注塑工站性能，通过软件注塑机控制系统实现注塑机辅机一体化控制，形成注塑行业系统化整体解决方案。

Systematization refers to the use of hardware to enable the injection molding machine, robot and auxiliary machine to cooperate to achieve "robot tracking clamping position compensation" and improve the performance of the injection molding station. At the same time, the use of "injection molding machine control system" software to achieve the integration of injection molding machine and auxiliary machine control, thus forming a systemic overall solution for the injection molding industry.

精密化是指通过自主研发，不断优化产品设计，提升温度、速度、注射压力、降低原料及能源消耗等关键指标控制，提升制品质量及生产效益。

Precision refers to the optimization of independent research and product design to improve temperature, speed, injection pressure; reduce raw materials; control energy consumption and other key indicators, to improve product quality and production efficiency.

通用化是指拓斯达注塑机面向大多数行业，增加注塑机应用的场景，为客户多种类产品生产提供便利。

Generalization means that the Topstar injection molding machine applies to most industries and scenarios of injection molding machine applications, and it can facilitate the production of many kinds of products for customers.

性价比则满足与相同价位产品，实现在配件、功能上提升10%-15%的设计原则，为客户提效降本。

Cost-effectiveness refers to the design principle of "10%-15% improvement in accessories and functions of injection molding equipment" when comparing with products of the same price level, to improve efficiency and reduce costs for customers.

TS Series Products

TS 系列产品

注塑机具有能一次成型外型复杂、尺寸精确或带有金属嵌件的质地密致的塑料制品的能力。

The injection molding machine has the ability to mold dense plastic products with complex appearance, precise dimensions or metal inserts in one go.

产品特点

Product Features

- **稳定坚固、简单实用** Stable and sturdy, simple and practical
- **高可靠性，容易操作** High reliability and easy to operate
- **易于加工、安装** Easy to process and install
- **方便维修、保养** Easy to repair and maintain

Application Industries

应用行业

电子类 Electronics

容器类 Containers

3C家电 3C Home Appliances

化妆品 Cosmetics

汽配行业 Auto Parts

日用品 Daily Products

- 高强度，稳定可靠
- 优良塑化组件
- 高稳定，精密控制
- 高端、自研、12寸屏电脑
- 宁静节能

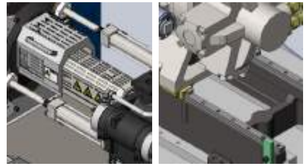
Product Accessories
产品配件

TS 通用型精密伺服注塑机 90T-470T

TS general-purpose precision servo-driven injection molding machine 90T-470T

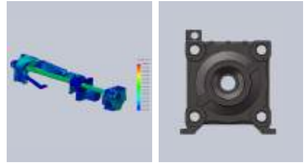
先进的油路设计，搭配专业控制器，使得机器动作稳定、制品良率高、响应速度快、控制精准、操作简单，满足多种工艺需求。

Advanced oil circuit design with professional controller makes the machine action stable, combined with high product yield, fast response time, precise control, easy operation, and meet a variety of process requirements.



采用斜排双射移油缸及线性导轨，射胶更加精准稳定。

Diagonal double injection mold shift oil cylinder and linear guide, more accurate and stable injection.



模板优化升级，结构可靠，变形小，能有效保护设备，提高模具使用寿命。

Optimized and upgraded platen, with reliable structure and small deformation, can effectively protect the equipment and improve the service life of mold.

标准螺杆：高性能氮化钢，耐用高效，应用广。

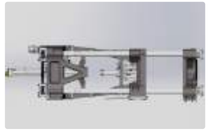
高混色/高混炼螺杆：满足高混色制品，易换色定制螺杆：不同制品特别定制塑化组件，如PC、PA等。

Standard screw: high performance nitride steel, durable and efficient, wide application High color mixing/high mixing screw: to meet the high color mixing products, easy to change color custom screw: specially customized plasticizing components for different products, such as PC, PA, etc.

Product Features
产品特点

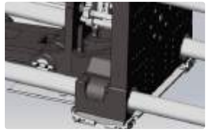
先进的射胶、锁模、油压系统设计，机器参数全面升级；

Advanced design of injection, mold clamping and oil pressure system, and comprehensive;



全新斜排机铰布局，可实现超长行程开模，开模位置精度<1mm. 模板运动快且稳；

Brand new diagonal hinge layout, which can realize ultra-long stroke mold opening, mold opening position accuracy <1mm, fast and stable platen movement;



采用独特的双滑脚设计，模板平行度调节方便；

Unique double slider design, easy to adjust the parallelism of the platen;

采用欧标顶针，顶针操作空间大；

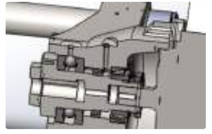
European standard ejector pin, with large operation space;

全新的调模机构，一键即可实现自动精准调模；

New mold adjustment mechanism, with one-key function available to realize automatic and accurate mold adjustment;

双射移搭配线性导轨，射台运动阻力小，动作灵敏，射胶精准稳定；

Double injection shift with linear guide, low resistance of injection unit movement, sensitive action, accurate and stable injection;



射胶传动轴采用三轴承设计，保证同轴度，螺杆料筒磨损小；

Three bearing design for the injection drive shaft to ensure coaxiality and small wear of the screw barrel;

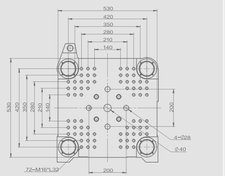
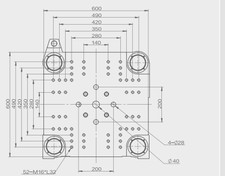
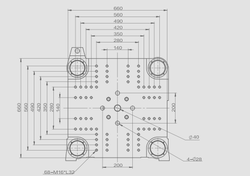
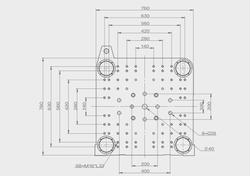
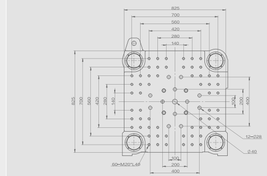
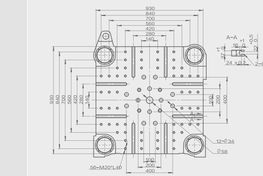
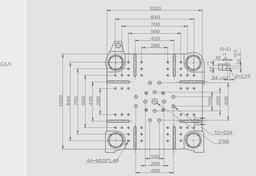
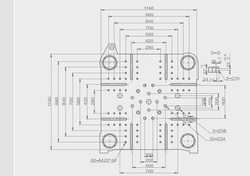
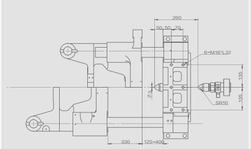
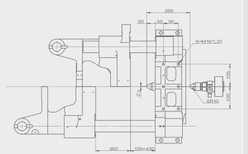
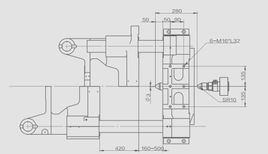
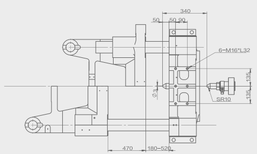
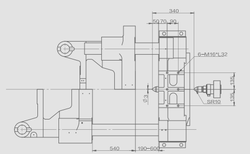
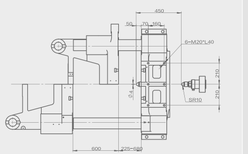
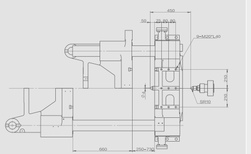
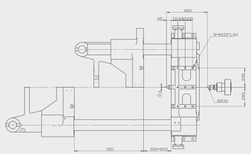
油路系统全面升级，安全，稳定，功能全，差动锁模运行周期快；

Oil circuit system fully upgraded, safe, stable, full-featured, with fast operation cycle of differential clamping;

采用高端注塑机专业电脑控制器。

High-end injection molding machine professional computer controller.

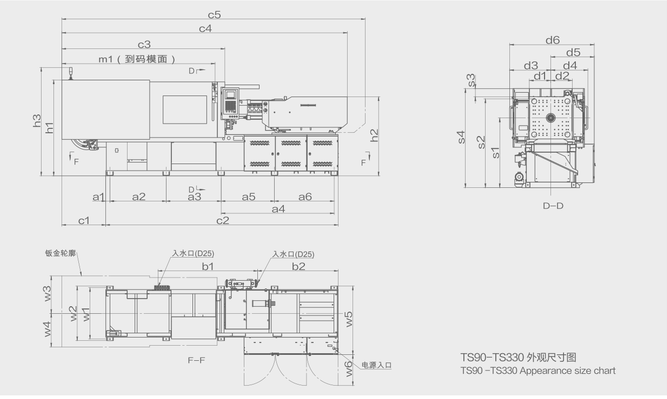
Product Parameters
产品参数

注射部份	INJECTION UNIT	UNITS	TS90			TS130			TS170			TS220			TS260			TS330			TS400			TS470		
螺杆直径	Screw Diameter	mm	32	36	40	36	40	45	40	45	50	45	50	55	50	55	60	60	65	70	65	70	75	75	80	85
螺杆长径比	Screw L/D Ratio	L/D	22.5	20.0	18.0	22.2	20.0	17.8	22.5	20.0	18.0	22.2	20.0	18.2	22.0	20.0	18.3	21.7	20.0	18.6	21.5	20.0	18.7	21.3	20.0	18.8
螺杆行程	Screw Stroke	mm	150	150	150	170	170	170	200	200	200	210	210	210	240	240	240	280	280	280	320	320	320	360	360	360
注射容积	Shot Volume	cm^3	121	153	188	173	214	270	251	318	393	334	412	499	471	570	679	792	929	1078	1062	1232	1414	1590	1810	2043
注射重量(PS)	Shot Weight(ps)	g	110	139	172	157	194	246	229	289	357	304	375	454	429	519	618	720	846	981	966	1121	1286	1447	1647	1859
		oz	3.9	4.9	6.0	5.5	6.8	8.7	8.1	10.2	12.6	10.7	13.2	16.0	15.1	18.3	21.7	25.4	29.8	34.5	34.0	39.4	45.3	50.9	58.0	65.4
注射压力	Injection Pressure	kgf/cm^2	2393	1890	1531	2301	1864	1473	2362	1866	1511	2299	1862	1539	2257	1865	1567	2188	1864	1607	2085	1798	1566	1984	1744	1545
注射速率	Injection Rate	cm^3/s	97	122	151	122	151	191	151	191	236	191	236	285	236	285	339	331	388	450	332	385	442	442	503	567
注射速率	Injection Rate	g/s	88	111	137	111	137	174	137	174	214	174	214	259	214	259	309	301	353	410	302	350	402	402	457	516
注射速度	Injection Speed	mm/s	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	117	117	117	100	100	100	100	100	100
螺杆转速	Screw Speed	rpm	260			260			230			200			200			200			170			170		
射咀推力	Nozzle Contact Force	t	4.2			4.2			6.2			6.2			6.2			9.1			9.1			9.1		
射咀行程	Nozzle Stroke	mm	260			260			280			340			340			450			450			450		
锁模部份	**CLAMPING UNIT**	**UNITS**	**TS90**			**TS130**			**TS170**			**TS220**			**TS260**			**TS330**			**TS400**			**TS470**		
锁模力	Clamping Force	t	90			130			170			220			260			330			400			470		
开模行程	Opening Stroke	mm	330			360			420			470			540			600			660			760		
模板尺寸(水平×垂直)	Platen size(H×V)	mm	530x530			600x600			660x660			760x760			825x825			930x930			1020x1020			1140x1140		
导柱内距(水平×垂直)	Space Between Tie Bars(H×V)	mm	360x360			410x410			455x455			510×510			570×570			670x670			710×710			810x810		
容模量(最薄-最厚)	Mould Thickness (Min)	mm	125			150			160			180			190			225			250			300		
	Mould Thickness (Max)	mm	400			430			500			520			600			680			730			810		
模板最大距离	Max. Daylight	mm	730			790			920			990			1140			1280			1390			1570		
顶出推力	Ejector Force	t	5.5			5.5			5.5			6.7			6.7			6.7			11.0			11.0		
顶出行程	Ejector Stroke	mm	120			120			140			160			160			160			220			220		
定位法兰	Locating Ring	mm	100			100			125			125			125			125			160			160		
电力/电热	**POWER/HEATING UNIT**	**UNITS**	**TS90**			**TS130**			**TS170**			**TS220**			**TS260**			**TS330**			**TS400**			**TS470**		
系统压力	System Pressure	kgf/cm^2	175			175			175			175			175			175			175			175		
油泵电机功率	Pump Power	kw	13			18			22			26			34			45			52			52		
电热量	Heating Power	kw	7			9.7			10.2			13.6			17.3			21.3			23.4			31.6		
温度控制段数	Number of Temp Control Zones		3+1			3+1			3+1			3+1			3+1			4+1			5+1			5+1		
其它	**0THERS**	**UNITS**	**TS90**			**TS130**			**TS170**			**TS220**			**TS260**			**TS330**			**TS400**			**TS470**		
机器尺寸（长x宽x高）	Machine Dimensions(LxWxH)	m	4.45x1.24x1.84			4.69x1.3x1.89			5.18x1.38x1.96			5.77x1.53x2.07			6.17x1.61x2.19			7.15x1.86x2.27			7.76x1.93x2.19			8.44x1.93x2.25		
油箱容积	Oil Tank Capacity	L	150			150			200			240			300			360			420			550		
机器重量	Machine Weight	t	3			3.6			4.3			6.2			7.3			10.6			14			16.8		
模板正面尺寸 Platen dimensions																										
模板侧面尺寸 Platen dimensions																										

由于技术不断发展、设计的改进及更新，以上规格如有更改，恕不另行通知。
Due to the continuous development of technology, improvement and update of design, the above specifications are subject

Product Specification

产品规格



TS90–TS330 外观尺寸图
TS90 –TS330 Appearance size chart

外观尺寸

	TS90	TS130	TS170	TS220	TS260	TS330
a1	80	80	80	80	80	105
a2	791	791	891	1069	1145	1460
a3	784	884	1013	1046	1140	1150
a4	1910	1940	2020	—	—	—
a5	—	—	—	1015	1075	1525
a6	—	—	—	1135	1135	1310
b1	1603	1764	1836	1894	2037	2520
b2	1343	1312	1459	1532	1553	1750
c1	674	714	782	835	945	1012
c2	3640	3770	4094	4420	4650	5645
c3	2375	2513	2805	3100	3392	3738
c4	4196	4428	4900	5429	5826	6704
c5	4456	4688	5180	5769	6166	7154
d1	272	307	342	387	430	502
d2	272	307	342	387	430	502
d3	586.5	611.5	651.5	743.5	783	865
d4	541.5	576.5	616.5	668.5	708	812
d5	655	690	730	784	824	990
d6	1241.5	1301.5	1381.5	1527.5	1607	1860

	TS90	TS130	TS170	TS220	TS260	TS330
h1	1600	1650	1725	1825	1947	2031.5
h2	1395	1415	1465	1505	1580	1660.5
h3	1840.5	1890.5	1965.5	2065.5	2187.5	2272
w1	720	790	870	978	1058	1200
w2	780	850	930	1038	1118	1280
w3	557	582	622	713.5	753.5	832
w4	512	547	587	638.5	678.5	787
w5	1045	1115	1195	1303	1383	1630
w6	590	590	590	590	640	590
s1	1160	1180	1220	1260	1320	1340
s2	1400	1455	1527.5	1605	1700	1785
s3	133	133	133	148	164.5	162
s4	1565	1615	1690	1790	1906.5	1997
m1	2225	2360	2640	2915	3200	3577

由于技术不断发展、设计的改进及更新，以上规格如有更改，恕不另行通知。
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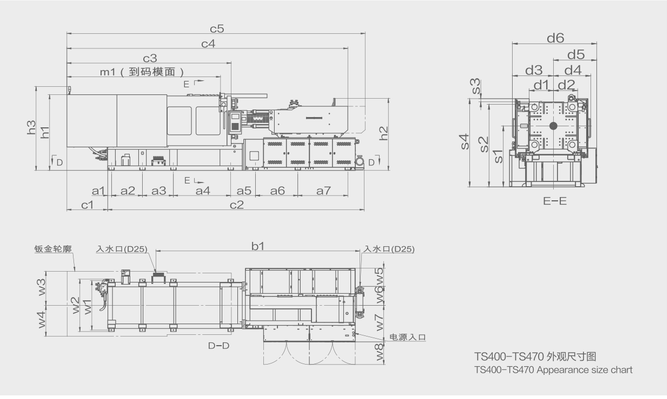


TS400–TS470 外观尺寸图
TS400–TS470 Appearance size chart

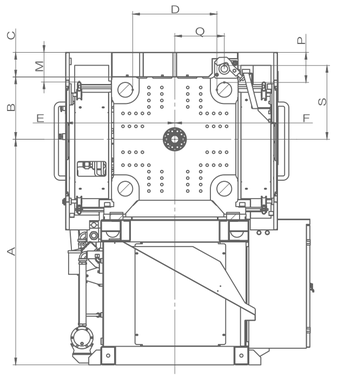
外观尺寸

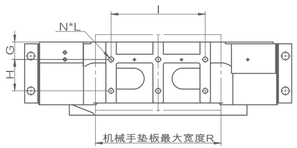
	TS400	TS470
a1	100	105
a2	805	890
a3	805	890
a4	1490	1550
a5	645	730
a6	1100	1100
a7	1300	1300
b1	5300	5500
c1	1060	1140
c2	6670	6990
c3	4271.5	4666.5
c4	7305	7987
c5	7755	8437
d1	532	592
d2	532	592
d3	900.5	980
d4	820.5	880
d5	950	950
d6	1932	1932

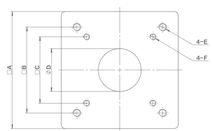
	TS400	TS470
h1	1972	2027
h2	1877.5	1877.5
h3	2186	2251
w1	1284	1410
w2	1364	1490
w3	886.5	966.5
w4	806.5	866.5
w5	469.5	463
w6	495.5	501
w7	950	950
w8	590	590
s1	1340	1340
s2	1815	1875
s3	69	64
s4	1939	1994
m1	3995	4370

Installation Dimensions

产品安装尺寸







加料口安装尺寸

机械手安装接口尺寸（注：A尺寸不含避震脚）
Robot assemble connecting size (Size A without level pad)

机型	TS90	TS130	TS170	TS220	TS260	TS330	TS400	TS470
A	1160	1180	1220	1260	1320	1340	1340	1340
B	272	302	337	382	422	495	530	590
C	133	133	133	148	164.5	162	69	64
D	360	410	455	510	570	670	710	810
E	525	550	590	682	722	804	839	908
F	480	515	555	607	646	751	759	908
G	50	50	50	50	70	70	75	75
H	70	90	90	90	90	160	80+80	100+100
I	270	270	270	270	270	420	420	480
L	M16	M16	M16	M16	M16	M20	M20	M20
M	160	160	160	195	196.5	222	127	127
N	6	6	6	6	6	6	9	9
P	165	160	162.5	185	206.5	212	124	124
Q	200	240	267.5	300	332.5	380	390	440
R	300	320	360	440	480	550	600	700
S	338	368	399	459.5	499	588.5	633.5	688.5

注塑机加料口安装尺寸
Installation size of injection molding machine filling port

机型	TS90	TS130	TS170	TS220	TS260	TS330	TS400	TS470
A	150	150	150	150	150	160	160	160
B	110	110	110	110	110	110	110	110
C	85	85	85	85	85	—	—	—
D	55	55	55	55	55	75	75	75
E	M10	M10	M10	M10	M10	M10	M10	M10
F	M8	M8	M8	M8	M8	—	—	—

Configuration Table of Standard Series

标准系列配置表

锁模部分 Mold Clamping		TS90	TS130	TS170	TS220	TS260	TS330	TS400	TS470
加大容模量50/100/150mm	Increase mold capacity by 50/100/150mm	○	○	○	○	○	○	○	○
机铰用铜套	Bushes for Toggle	●	●	●	●	●	●	●	●
拉杆导套用含油铜套	Oiled bushes for tie bars	●	●	●	●	●	●	●	●
液压马达齿轮调模	Hydraulic gear pump for mold adjust	●	●	●	●	●	●	●	●
吊模架	Suspended formwork	○	○	○	○	○	○	○	○
油脂润滑(配自润滑轴承)	Grease lubrication (with self-lubricating bearing)	○	○	○	○	○	○	○	○
模具强制复位装置	Installation of forced reset device for mold	●	●	●	●	●	●	●	●
加装模具隔热板	Installation of heat insulation board for mold	○	○	○	○	○	○	○	○
弓形码模夹	Bow-shaped mold clamp	●	●	●	●	●	●	●	●
加装机械安全锁	Installation of mechanical safety lock	●	●	●	●	●	●	●	●
锁模导轨加装钢带	Installation of steel belt for mold locking guide rail	●	●	●	●	●	●	●	●
磁力模板	Magnetic template	○	○	○	○	○	○	○	○
模板增加T型槽+码模孔	Add T-groove + code mould hole for the template	○	○	○	○	○	●	●	●
模板增加T型槽	T-groove added for formwork	○	○	○	○	○	○	○	○
成品滑道	Finished slide	●	●	●	●	●	○	○	○

射胶部分 Glue Injectiont		TS90	TS130	TS170	TS220	TS260	TS330	TS400	TS470
加长射嘴50/100/150/200mm	Lengthen nozzle by 50/100/150/200mm	○	○	○	○	○	○	○	○
过滤网射嘴组件	Injection nozzle assembly of filter screen	○	○	○	○	○	○	○	○
弹簧自锁射嘴(国产)	Self-locking injection nozzle of spring (made in China)	○	○	○	○	○	○	○	○
混色混炼螺杆	Mixing screw with assorted color	○	○	○	○	○	○	○	○
PMMA塑化组件	PMMA plasticizing module	○	○	○	○	○	○	○	○
PC塑化组件	PC plasticizing module	○	○	○	○	○	○	○	○
软PVC塑化组件	Flexible PVC plasticizing module	○	○	○	○	○	○	○	○
加大一级熔胶马达	Upgrade glue melting motor by a grade	○	○	○	○	○	○	○	○
减小一级/二级射胶机构	Degrade glue injection mechanism by a/two grade	○	○	○	○	○	○	○	○
射台加装手动润滑泵	Install manual lubrication pump for injection platform	○	○	○	○	○	○	○	○
下料口温度检测	Tenperature detector in material feeding hole	●	●	●	●	●	●	●	●
射移、射胶用线轨	Linear guiders for injection&carriage movement	●	●	●	●	●	●	●	●
双射移油缸	Double-injection shift cylinder	●	●	●	●	●	●	●	●
全封闭保温罩	Totally enclosed heat insulation cover	●	●	●	●	●	●	●	●
加装风冷装置	Installation of air cooling device	○	○	○	○	○	○	○	○
射嘴防护罩	Nozzle shield	●	●	●	●	●	●	●	●
射台表面加花纹板	Carriage covered with anti-slip steel mat	●	●	●	●	●	●	●	●
加装料斗	With Hopper	○	○	○	○	○	○	○	○
带轴承料斗滑动装置	Sliding device of hopper with bearing	○	○	○	○	○	○	○	○
加装磁力架座(配磁力架)	Installation of magnetic frame base (with magnetic frame)	○	○	○	○	○	○	○	○
加大料斗	Enlarged hopper	○	○	○	○	○	○	○	○
埋入式探针射嘴	Embedded probe nozzle	○	○	○	○	○	○	○	○
冷水环增加电磁水阀	Add solenoid water valve for cold water ring	○	○	○	○	○	○	○	○

钣金部分 Metal Plate		TS90	TS130	TS170	TS220	TS260	TS330	TS400	TS470
加宽机门（双边100mm）	Widened door (100mm on both sides)	○	○	○	○	○	○	○	○
降低安全门高度	Reduce the height of safety door	○	○	○	○	○	○	○	○
同步带电动门	Synchronous with electric door	○	○	○	○	○	○	○	○
锁模区加装滑动上盖板	Installation of top sliding cover plate in mold clamping area	○	○	○	○	○	○	○	○
加装一组6管冷却流量计	Installation of a set of 6-tube cooling flow meters	○	○	○	○	○	○	○	○
运水架（进出）配D10快插接头	Water carrier (in and out) with D10 quick connector	○	○	○	○	○	○	○	○
六进六出运水架（进出）配D12快插接头	6 in 6 out Water carrier (in and out) with D12 quick connector	●	●	●	●	●	●	●	●

液压部分 Hydraulic Part		TS90	TS130	TS170	TS220	TS260	TS330	TS400	TS470
标配一组液压抽芯	Standard 1 set hydraulic core pulling	○	○	○	○	○	○	●	●
一组/二组/三组液压抽芯	Add a / two/three set of hydraulic core pulling system	○	○	○	○	○	○	○	○
一组/二组/三组液压抽芯配快速接头	One / two/three set of hydraulic core pulling system with quick coupling	○	○	○	○	○	○	○	○
一组气动抽芯	One set of pneumatic core pulling system	○	○	○	○	○	○	○	○
一组/二组/三组吹风	One/ two/three set of aeration system	○	○	○	○	○	○	○	○
液压旋转脱模（不带液压马达）	Hydraulic rotary demoulding (without hydraulic motor)	○	○	○	○	○	○	○	○
液压旋转脱模（带液压马达）	Hydraulic rotary demoulding (with hydraulic motor)	○	○	○	○	○	○	○	○
顶针/抽芯增加叠加单向阀	Thimble / core pulling system with stacked check valve	○	○	○	○	○	○	○	○
调模刹车液压马达	Hydraulic motor for mold adjustment brake	○	○	○	○	○	○	○	○
开模同步顶针/熔胶/抽芯	Synchronous thimble for mould opening / glue melting / core pulling	○	○	○	○	○	○	○	○
加装射移单向阀	With Carriage movement check valve	●	●	●	●	●	●	●	●
数控背压	CNC back pressure	○	○	○	○	○	○	○	○
液压安全锁	Hydraulic safety lock	○	○	○	○	○	○	○	○
加大一级/二级油泵电机	Upgrade the oil pump motor by a / two grade	○	○	○	○	○	○	○	○
油温预热功能	Oil temperature preheating function	○	○	○	○	○	○	○	○
加大油冷却器	Upgrade oil cooler	○	○	○	○	○	○	○	○
加装冷却水控制阀	Installation of cooling water control valve	○	○	○	○	○	○	○	○
高速伺服注射阀	High speed servo opening and closing valve	○	○	○	○	○	○	○	○
高速伺服开合模阀	High-speed servo open/close die valve	○	○	○	○	○	○	○	○
加装射移单向阀	With Carriage movement check valve	●	●	●	●	●	●	●	●
加装高压软管防爆链	nstallation of high pressure hose explosion-proof chain	●	●	●	●	●	●	●	●

电气部分 Electrical Part		TS90	TS130	TS170	TS220	TS260	TS330	TS400	TS470
电动旋转脱模（不含马达）	Electric rotary demoulding (excluding motor)	○	○	○	○	○	○	○	○
更改地区电压	Changing regional voltage	○	○	○	○	○	○	○	○
加装三色报警灯	Installation of three-color alarm light	●	●	●	●	●	●	●	●
一组2+3 220V/10A插座	One set 2+3 220V/10A power socket	●	●	●	●	●	●	●	●
二组三相32A插座	2 sets 2P 32A power socket	●	●	●	●	●	●	●	●
加装电源插座	Adding power outlets	○	○	○	○	○	○	○	○
配陶瓷发热圈	Equip ceramic heating ring	○	○	○	○	○	○	○	○
加装模具返回确认	Add mould for return confirmation	●	●	●	●	●	●	●	●
射嘴独立控制	Independent nozzle control	●	●	●	●	●	●	●	●
后门急停按钮	Emergency stop button of rear door	●	●	●	●	●	●	●	●
熔胶转速测试装置	Speed test device for glue melting	●	●	●	●	●	●	●	●
油位警报	Oil level alarm	○	○	○	○	○	○	○	○
油温过高报警	Super high oil temperature alarm	●	●	●	●	●	●	●	●
加装电度表	Installation of watt hour meter	○	○	○	○	○	○	○	○
加热用固态继电器	Solid state relay for heating	●	●	●	●	●	●	●	●
热流道接口（接电脑）	Hot runner interface (connected to computer))	○	○	○	○	○	○	○	○
气辅注射装置接口	Interface of gas assisted injection device	○	○	○	○	○	○	○	○
加装两组模具温控	Add two sets of mould for temperature control	○	○	○	○	○	○	○	○
锁模力检测及显示	Clamping force detection and display	○	○	○	○	○	○	○	○
顺序射胶接口	Sequential glue injection interface	○	○	○	○	○	○	○	○
顺序射胶（带顺序阀）	Sequential injection (with sequence valve)	○	○	○	○	○	○	○	○
欧规67	European standard 67	○	○	○	○	○	○	○	○
欧规12	European standard 12	○	○	○	○	○	○	○	○

其他部分 Other Part		TS90	TS130	TS170	TS220	TS260	TS330	TS400	TS470
射台表面加花纹板	Pattern plate on the surface of shooting table	●	●	●	●	●	●	●	●
更改钣金颜色（A/A2以外颜色）	Change metal plate color (color other than A/A2)	○	○	○	○	○	○	○	○

由于技术不断发展、设计的改进及更新，以上规格如有更改，恕不另行通知。
Due to the continuous development of technology, improvement and update of design, the above specifications are subject

备注：标准配置“●”和备选配置“○”
Remark:Standard “● Optional “○”

After-Sale Service
售后服务

快速响应

快速响应客户的需求，收集客户的现场信息并记录故障，给出保养合理化建议；

Fast Response

Quickly respond to customer needs, collect customer site information and record the failure, give reasonable maintenance Suggestions;

快速到达

快速到达客户现场，进行设备维修；

Fast Arrival

Quickly arrive at customer site for equipment maintenance;

快速处理

快速处理，帮助客户第一时间将设备调整到最佳状态；

Fast Processing

Quickly processing to help customers adjust the equipment to the best state in the first time;

快速验收

快速完成服务项目验收。

Fast Acceptance

Quickly complete the service project acceptance.

Global Service Net
全球服务网点

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衷心感谢

超过15000家客户见证并长期支持

Over 15000 customers have witnessed TOPSTAR growth and long supports

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珠海冠宇 捷普绿点 蜂巢能源 长城汽车 比亚迪 富士康

裕同科技 多氟多 晶澳科技 华为 宇瞳光学 旺盈包装

正威集团 卫龙 长盈精密 三一重工 精研科技 新宝电器