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SONLY 首力

探索无止境，创新不止步！

Endless exploration, endless innovation!

F9- 超音速系列注塑机

F9-SUPERSONIC SERIES INJECTION MOLDING MACHINE

一机多用，降本增效

One machine for multi-purpose,
reducing cost and increasing efficiency



SONLY 首力

浙江首力智能装备有限公司

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公众号二维码



网站二维码



首力是专业提供塑料成型整体解决方案的高新技术企业，公司创建于 1998 年，位于“中国注塑机之都”宁波，集研发、制造、加工、检测、应用于一体，年生产能力达到 5000 台。

首力拥有 6 万平米现代化生产基地，各类大型先进精密加工和检测设备 300 余台套，拥有一批高素质、高学历的技术研发和管理团队、与知名高校联合建立研究生培养基地。

首力是工信部机械品牌示范企业，通过 CE、ISO9001 质量体系认证，已累计授权专利 27 项，拥有品类齐全的首力 U-TS 系列高档精密注塑机、伺服注塑机、PET 瓶胚、PP-R 管件专用、水果筐、双色、二板大型、全电动注塑机等多系列规格，涵盖了锁模力 98 吨 -3400 吨的全系列产品，在国内建立 40 多家销售网点，产品远销中东、南美、东南亚、独联体等国家和地区。

SONLY is a high technical company which established in 1998, professional at offering turnkey plastic injection project solution. SONLY factory located in Ningbo, "the city of injection molding machine". It has a whole production line including research & study, manufacturing, processing, inspection and application, with production capacity of 5000 sets each year.

SONLY has a modern production workshop of 60000 square meters, more than 300 sets different kinds of big advanced precision equipment and a group of highly educated research team and management team.

SONLY injection molding machine has CE, ISO 9001 certificates and 27 patents. It produces injection machine from 98 to 3400 tons, includes SONLY U-TS series high precision injection molding machine, servo motor injection molding machine, PET preform machine, PPR special series machine, fruit box special series machine, double color machine, two plate machine, full electric injection machine etc., which has been sold to Europe, Middle East, South America and Africa.

理念与价值观

IDEAS AND VALUES

首力秉承“高效节能、精密稳定”的产品理念，为全球市场提供设计先进、功能完善、品质卓越的设备和更智慧的注塑解决方案。

Sonly adheres to the product concept of "high efficiency energy saving, precision with stability", providing advanced design, perfect function, excellent quality equipment and more highlight injection moulding solutions in the global market.

“创新、绿色、智能、开放、节能”是首力的品牌理念。我们践行“诚信、责任、务实、创新、利他”的价值观，服务万千用户，创造更优价值。

"Innovation, green, intelligence, openness and energy saving", this is the brand concept of Sonly. We practice the values of "integrity, responsibility, pragmatism, innovation and altruism" to serve thousands of customers and create better value.

强大制造实力

STRONG MANUFACTURING CAPABILITY



6S 管理

6S management



精益生产

precise production



持续改善

continuous improvement



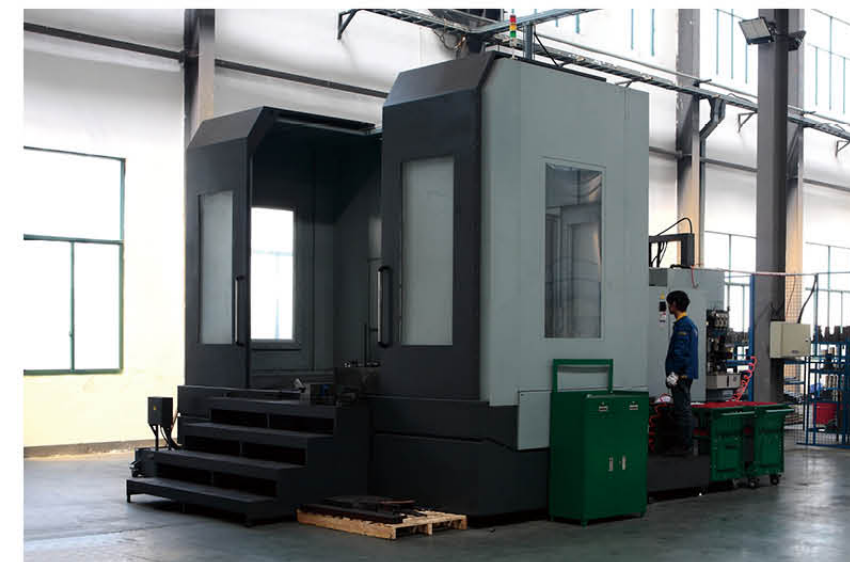
完美交付

perfect delivery



车间一角

WORKSHOP CORNER



车间设备

WORKSHOP EQUIPMENTS

缘起篇

ORIGIN STORY



◆ F9——一机多用、降本增效

F9----One machine for multi-purpose, reducing cost and increasing efficiency

首力团队通过深入的市场调研，发现当今塑料制品材料种类繁多，制品工艺要求也越来越高，而普通常规注塑机的各项性能指标不能很好满足市场的个性化定制需求。客户为了提高生产效率和市场竞争力，纷纷购买水果筐、瓶盖、眼镜架、快速机等各类专用注塑机。短期看，专用注塑机确实能较好满足小众制品的高效生产需求，但长期看，却有巨大隐患。当客户购入专用注塑机后，若该制品改料或遇市场更新换代，此专用塑机便面临很高的改造成本或被淘汰的风险。

Through in-depth market research, Sonly team found that today's plastic products are made of a wide variety of materials, and the product process requirements are getting more and more higher, while the performance of conventional injection moulding machines cannot well suited to the individual needs of the market. In order to improve production efficiency and market competitiveness, customers have to chose special injection molding machines such as fruit baskets, bottle caps, eyeglass frames and fast speed machines. In the short term, these special injection molding machines are indeed better at meeting the need for efficient production of the special products, but in the long term, there are huge pitfalls. When the customer purchased a special injection molding machine, if the product material is changed or the market is updated, the special machine might be obsolete or takes high cost to change.

很多用户已不满足这种“适用面窄、缺乏灵活性”的专用塑机。人们期待一款能广谱适用多种个性化定制场景，大幅提高生产效率，灵活应对市场挑战的新型机器。客户不仅要求设备精密稳定，更希望能“一机多用、降本增效”。

Many customers are no longer satisfied with these "narrow usage and inflexible" special injection molding machines. They are looking forward to a new machine that could be adapted to a wide range of individual situations, significantly increase productivity and respond flexibly to market challenges. They not only require precise and stable equipment, but also want "one machine for multi-purpose, reducing cost and increasing efficiency".

首力顺应市场发展趋势，洞悉客户差异化需求，运用新研发平台，倾力打造了这款 **F9-超音速** 系列注塑机。

Sonly complies to the market development trend and understands the differentiated needs of customers, so we use new R&D platform to create this F9-Supersonic series injection molding machine.

F9 系列注塑机秉承极简设计理念，以“**一机多用、降本增效**”为核心目的，外观新颖、结构紧凑、性能卓越。

The F9 series of injection molding machine is designed from extremely austere concept, with the main purpose of "one machine for multi-purpose, reducing cost and increasing efficiency", it has a novel appearance, compact structure and excellent performance.

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Endless exploration, endless innovation!

产品篇

PAPER PRODUCTS

◆ 十大核心优势成就 F9“一机多用，降本增效”

Ten core advantages of F9 "one machine for multi-purpose, reducing cost and increasing efficiency"

◆ 自主加工，创新更自由

Independent processing, free innovation

拥有先进的加工检测设备，自主加工，不仅保证零件精度高，交货周期短，还能满足一机多用的高标准定制需求。

With advanced processing and testing equipment to process independently, SONLY not only ensures high precision for machine detail parts with short delivery time, but also meets the high standard customized requirements with multi-purpose.

◆ 超高刚性模板结构，更小模具磨损

Super rigid template structure, less mold abrasion

销轴内置设计，缩短锁模部件长度，提升模板刚性和模具支撑重量。基于高刚性锁模单元设计，全面优化参数与受力分布，确保整机稳定、可靠、耐用。

借助集成的液压控制装置，可移动模板获得良好支撑并在导向机架上进行导向运动，即使在沉重模具运行时也能提高导向精度，实现模具磨损更小化以及完美的模具保护。所以，维护成本始终可控，效益更好。

Inside design of pin shaft shortens the length of mold clamping part, improves template rigidity and reinforces mould weight support. High rigid mold clamping unit design, comprehensively optimized parameters and force distribution ensure the stability, reliability and durability of the whole machine.

With the help of integrated hydraulic control device, the movable template is well supported and guided on the guide rack. It improves movement accuracy when the mold is very heavy, which achieve less mould abrasion and perfect mould protection. Therefore, the maintenance cost is always controllable and the benefit is better.

◆ 宽板设计更高效

More efficient wide template design

机器的拉杆间距比普通规机大一个型号，容量量更大，一个产品普通塑机可能需要用 168 吨机才能生产，而用首力 F9 超音速系列 140 吨这款机就可以了。

F9 series machine tie bar space of larger compared with ordinary machine in same model, which has bigger space for mould. For example, the same product if by ordinary injection molding machine needs 168 tons, while by SONLY F9 supersonic series only need 140 tons.

◆ 欧规机械手安装预留，无限可能

European robot installation interface

预留欧规机械手安装孔及信号插头安装孔，实现便捷、高效标准化安装。

European standard robot and signal plug installation interface reserved, which is convenient and efficient.

◆ 注射双层导轨结构，无阻力免拆卸

Double layer injection guide rail structure, no resistance and no disassembly

销轴内置设计，缩短锁模部件长度，提升模板刚性和模具支撑重量。基于高刚性锁模单元设计，全面优化参数与受力分布，确保整机稳定、可靠、耐用。

F9 series machine adopted double-layer guide rail, the upper layer is linear guide rail which has better rigidity. The injection movement is smooth and accurate without friction resistance. It also improves the repetition accuracy of products to less than 0.5% and increases injection speed by 10%-40% with low noise.

◆ 平衡式双缸整射移结构，精准稳定防漏胶

Balanced double cylinder integral injection movement structure, accurate and stable, avoid melted material leakage

双射油缸平衡布置，确保射嘴对中精准。采用双射移结构，能使座台平稳而均衡有力的顶住模具进胶口，注射稳定，密封性好，有效避免漏胶。

Balanced layout of double injection cylinders ensure the precision of injection nozzle centering. With double injection structure, the injection unit can withstand mold inlet center stably and evenly. The stable injection and good sealing can avoid melted material leakage effectively.

◆ 非焊接式主油管设计，防漏更清洁

Non-welded main oil pipe design, leak-proof and cleaner

非焊管路，确保长期使用不会出现焊缝开裂的漏油情况，降低油液污染。可以选配高精密旁路过滤装置与自封式吸油过滤器，非焊管路 + 整体式油缸总成，提升油液清洁度。新油路设计，外观亮丽，内在油路快而稳，降本增效。

Non-welded pipe circuit ensures long-term usage without oil leakage by weld crack and reduces oil pollution. High precision bypass filter device, self sealing oil suction filter, non welded pipeline+ integral oil cylinder assembly can be selected to improve the oil cleanliness. New oil circuit design, beautiful appearance,fast and stable internal oil circuit, reducing cost and increasing efficiency.

◆ 新一代伺服系统，更高效

New generation servo system, more efficient

超快响应，27ms 可达最高压力，相比同一款 / 规格的普通机，制品成型周期快 3s 左右，能有效缩短周期、提高生产效率。特别适合透明产品的生产。系统压力高，生产的制品更广泛。

Super fast response can reach the highest pressure in 27ms. Compared with the same model/specification ordinary machine, its production molding time is about 3s faster, which shorts the cycle time effectively and improves production efficiency. It is especially suitable for transparent products. With high system pressure, it can use for a wider range of products.

◆ 专用电脑控制器，高效、耐用、延展性强

Special computer controller, efficient, durable, strong ductility

配置先进的注塑机专用（弘讯系列）电脑控制器，一键式 12 寸铝铣操作面板，操作屏大、使用直观简便，性能高端耐用、外形美观大气。操作程序二次开发，扫描周期大幅提升，IO 点位预留充足，开放式编程平台，可选配高端多点触控屏。可支持多种数据接口协议。提供云服务，可远程协助和维护（选配）。

It is equipped with advanced special computer controller for injection molding machine (Techmation series), one button 12 inch aluminum milling operation panel, large operation screen, which is intuitive and easy to use and has high-end and durable performance meanwhile with beautiful and atmospheric appearance. The secondary development of the operating program has greatly improved the scanning cycle, reserved enough IO points, open programming platform, high-end multi-point touch screen is optional. It can support multiple data interface protocols and provides cloud services for remote assistance and maintenance (optional).

◆ 综合服务，一机多用、长用

Comprehensive service, one machine for multi-purpose, long lifetime

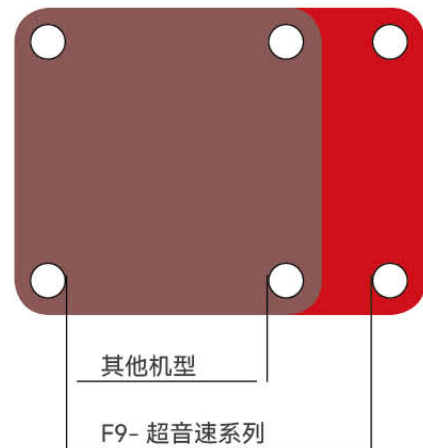
您的设备必须应对塑料加工行业不断变化的挑战。我们有非常专业的综合服务体系，让您随时获得高性能的改良和优化工具，以及全面的专业培训，实现一台机器终身使用。

A good machine must be capable to face the challenges of plastic processing industrial market changes. We have a very professional and comprehensive service system, so that you can obtain high-performance improvement and optimization tools at any time, as well as comprehensive professional training, to achieve one machine with the maximum lifetime

锁模系统

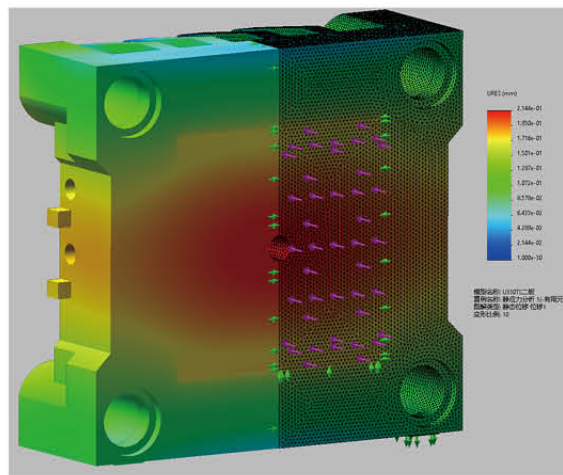
CLAMPING UNITS

- ◆ 自有设备、自主加工，零件精度高，交货周期短，创新更自由。
Independent processing equipment, high precision parts, short delivery cycle, free innovation.



- ◆ 开合模刹车油路设计：提高开模终点位置，更精准。
Design of brake oil circuit for mold opening and closing: improve the end position of mold opening and make it more accurate.

- ◆ 独特模板结构：内部加强筋分布合理，模板变形量小，受力更均匀；且拉杆定位更好，整体性能提升。
Unique plate structure: The internal reinforcement ribs are reasonably distributed, the plate deformation is small, and the force is more uniform; and the tie rod positioning is better, and the overall performance is improved.



- ◆ 欧规机械手安装：预留欧规机械手安装孔及信号插头安装孔，实现便捷、高效标准化安装。
European standard manipulator installation: reserved European standard manipulator mounting holes and signal plug mounting holes to achieve convenient, efficient and standardized installation.

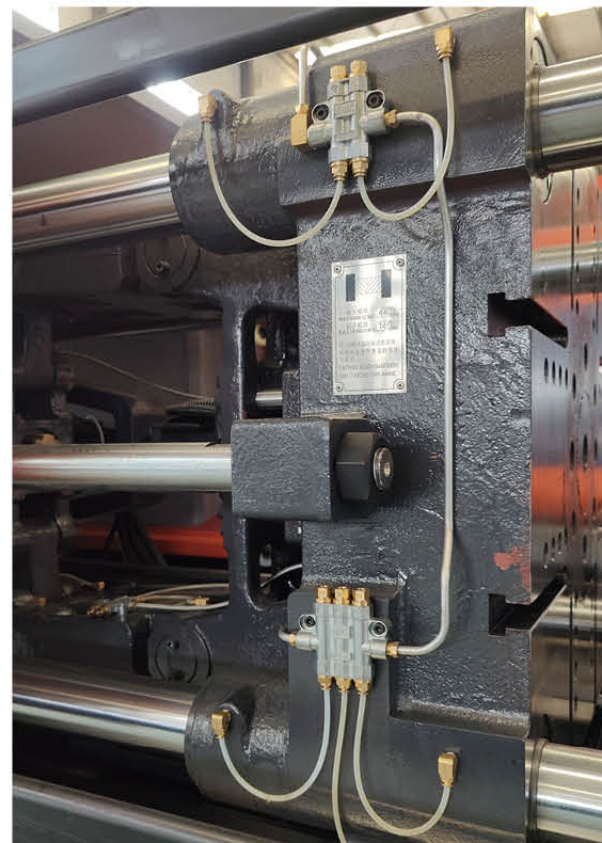
- ◆ 超高刚性模板结构：销轴内置，提升模板刚性，缩短锁模部件长度。全面优化参数与受力分布，确保整机扎实耐用、稳定可靠。模具支撑重量提升 15%，拉杆受力偏载率 $\leq 4\%$ ，开模重复定位精度最高达 $\leq 1\text{mm}$ 。

Ultra-high rigid template structure: built-in pins improves template rigidity and shorten the length of clamping parts. Fully optimized parameters and force distribution ensures the whole machine is solid, durable, stable and reliable. The support weight of the mold is increased by 15%, the eccentric load rate of the tie bar is $\leq 4\%$, and the repeat positioning accuracy of the mold opening is up to $\leq 1\text{mm}$.



- ◆ 连杆机构、移模导向套润滑：自动稀油润滑泵 + 检知式分配器，便捷、美观。

Lubrication of connecting rod mechanism and shifting guide sleeve: automatic thin oil lubricating pump + detection type distributor, convenient and beautiful.

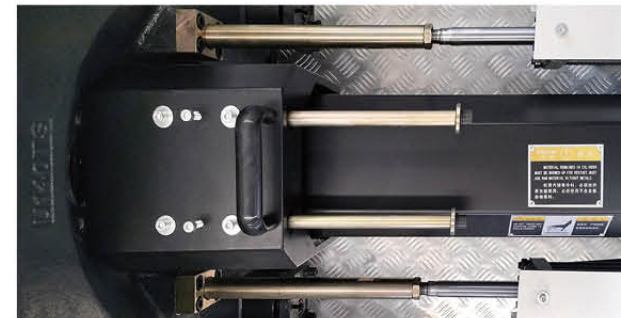


注射系统

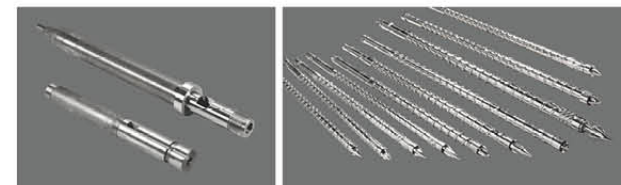
INJECTION UNITS

- ◆ 平衡式双缸整射移结构：双射油缸平衡布置，确保射嘴对中精准。采用双射移结构，能使座台平稳而均衡有力的顶住模具进胶口，注射稳定，密封性好，有效避免漏胶。

Balanced double-cylinder whole injection structure: The double-injection cylinder is arranged in a balanced manner to ensure the accurate centering of the nozzle. The double-shot shifting structure can make the base stand against the mold inlet stably, evenly and forcefully, with stable injection and good sealing, effectively avoiding glue leakage.



- ◆ 高塑化专用螺杆：高效专用塑化螺杆，有效提高塑化速度和效果。
Special screw for high plasticization: high-efficiency special screw for plasticization, which can effectively improve the speed and effect of plasticization.



- ◆ 注射双层导轨结构：采用双层导轨，上层为线性导轨，刚性更好，射胶时无摩擦阻力，平稳而精准，提高制品重复精度，重复精度 0.5% 以内；注射速度提升 10%-40%，且低噪音。下层导轨设计成标配式足够长度，无须拆卸下来更换，前移或后移，方便机筒螺杆改变长短时用户现场直接移动更改。

Double-layer guide rail structure for injection: It adopts double-layer guide rail, and the upper layer is a linear guide rail, which has better rigidity, no frictional resistance during injection, stable and accurate, and improves the repeatability of products, within 0.5%; the injection speed is increased by 10%-40%, and low noise. The lower guide rail is designed to be of sufficient length as standard, and it does not need to be disassembled and replaced. It can be moved forward or backward, which is convenient for users to directly move and change the length of the barrel screw when changing the length.



- ◆ 注射台旋转装置：更换螺杆料筒更加方便、高效。
Injection table rotation device: It is more convenient and efficient to replace the screw barrel.



- ◆ 预塑背压比例阀：预塑采用比例背压控制，操作简便，运行稳定。

Pre-plastic back pressure proportional valve: Pre-plastic adopts proportional back pressure control, which is easy to operate and stable in operation.



- ◆ 射移撞杆：采用铝合金型材，美观实用。方便由于螺杆改变长短，座台前移或者后移时，它能够凭借自己整体滑槽的优势灵活移动。不用重新加工撞杆。

Shooting and ramming rod: the aluminum alloy profile is used, which is beautiful and practical. It is convenient that when the base moves forward or backward due to the change of the length of the screw, it can move flexibly with the advantages of its own overall chute. No need to rework the striker.

- ◆ 模块化设计，稳定、高效、高精度：优化注射机构设计，提升注射刚性；优化料管组件设计，减少注射过程中的各项摩擦阻力，注射速度：140-180mm/s；稳定控温，料筒温度控制 $\leq \pm 1^\circ\text{C}$ 。

Modular design, stable, efficient and high precision: Optimize the design of the injection mechanism to improve the rigidity of injection; Barrel temperature control $\leq \pm 1^\circ\text{C}$.



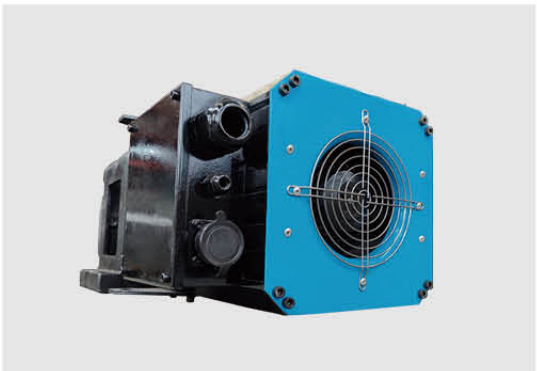
- ◆ 顶退限位：采用撞杆结构，优化顶退位置调整，方便又美观。
Lifting and retracting limit: Adopting the ram structure, the adjustment of the position of the ejecting and retracting is optimized, which is convenient and beautiful.

液压系统

HYDRAULIC SYSTEM

- ◆ 新一代伺服系统：整套油路多重优化，动力强、超快响应，27ms 可达最高压力，且系统压力 17.5Mpa，能有效缩短周期、提高生产效率；确保整机能耗更优，相比传统液压系统节能 30-80%。

A new generation of servo system: multiple optimizations of the entire oil circuit, strong power and ultra-fast response, the highest pressure can be reached in 27ms, and the system pressure is 17.5Mpa, which can effectively shorten the cycle and improve production efficiency; ensure better energy consumption of the whole machine, compared to The traditional hydraulic system saves 30-80% energy.



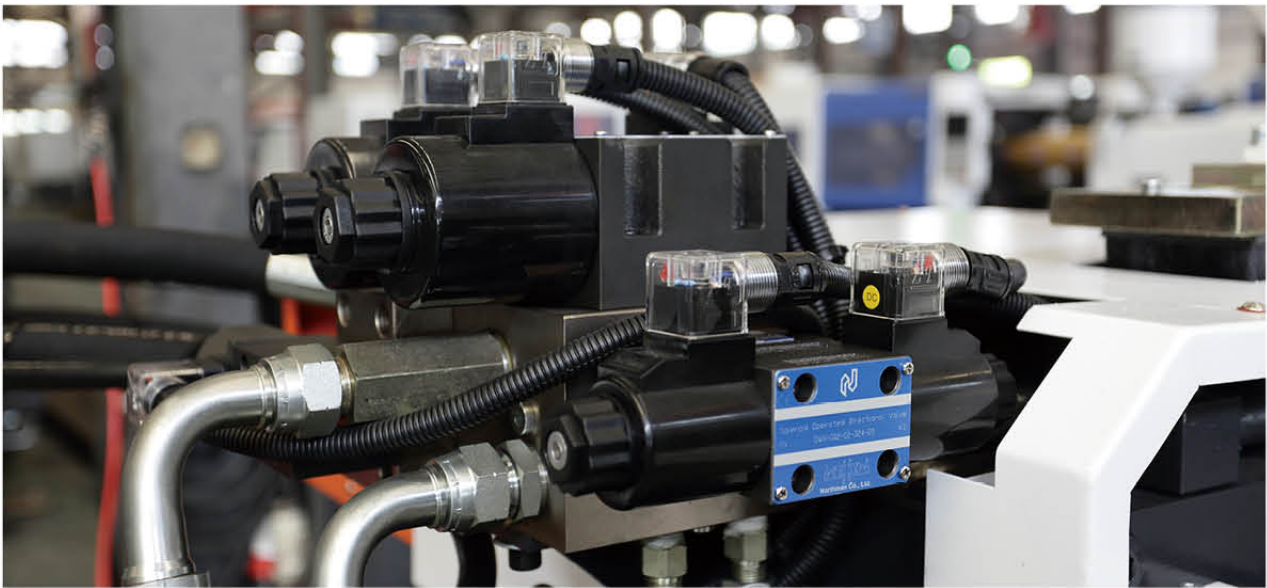
- ◆ 领先液压安全标准（选配）：带位置检测液压安全，低压模板，软管防护链，管路泄压功能。

Leading hydraulic safety standard (optional): hydraulic safety with position detection, low pressure template, hose protection chain, pipeline pressure relief function.



- ◆ 非焊接管路，杜绝漏油更清洁：非焊管路 + 高精度旁路过滤装置 + 自封式吸油过滤器 + 整体式油缸总成，提升油液清洁度。新油路设计，外观新颖靓丽，内在油路快而稳。

Non-welded pipelines to prevent oil leakage and cleaner: non-welded pipelines + high-precision bypass filter device + self-sealing oil suction filter + integral oil cylinder assembly to improve oil cleanliness. New oil circuit design, novel and beautiful appearance, fast and stable internal oil circuit.



- ◆ 油泵电机功率加大，缩短成型周期，拓宽成型工艺。
The power of the oil pump motor is increased, the molding cycle is shortened, and the molding process is broadened.

电控系统

ELECTRONIC CONTROL SYSTEM

- ◆ 专用（弘讯）电脑控制系统：响应速度快、控制精准，一键式 12 寸铝铣操作面板，操作屏大、操作直观简便，外形美观大气。操作程序二次开发，可满足多种复杂工艺需求，扫描周期大幅提升，IO 点位预留充足，程序功能强大。开放式编程平台，可选配高端多点触控屏。可支持多种数据接口协议。提供云服务，可远程协助和维护（选配）。

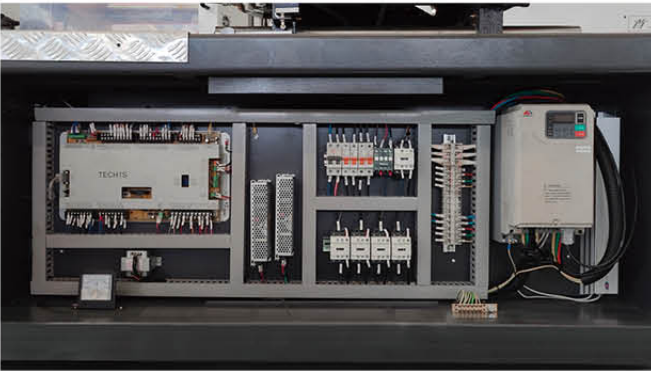
Special (Techmation) computer control system: fast response, precise control, one-button 12-inch aluminum milling operation panel, large operation screen, intuitive and simple operation, and beautiful appearance. The secondary development of the operating program can meet a variety of complex process requirements, the scanning cycle is greatly improved, the IO points are fully reserved, and the program function is powerful. Open programming platform, optional high-end multi-touch screen. Can support a variety of data interface protocols. Provides cloud service for remote assistance and maintenance (optional).



- ◆ 专业电气布局及品牌元器件：防水防尘密封电气箱，采用世界著名品牌元器件，强弱电分开布局，保证设备运行可靠、控制精准和使用方便。

Professional electrical layout and brand components: waterproof and dustproof sealed electrical boxes, using world-renowned brand components, separate layout of strong and weak currents, to ensure reliable equipment operation, accurate control and convenient use.

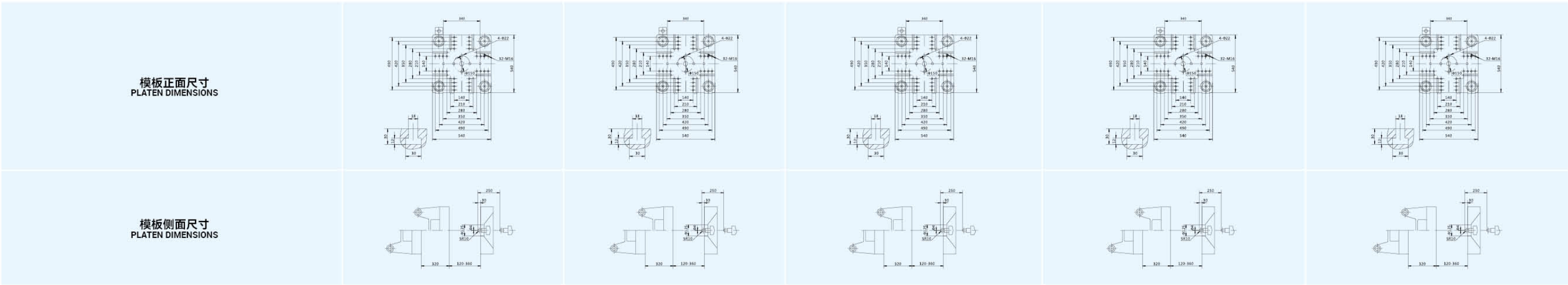
- ◆ 设计更具灵活性和也更人性化。
The design is more flexible and more user-friendly.



参数表

PARAMETER TABLE

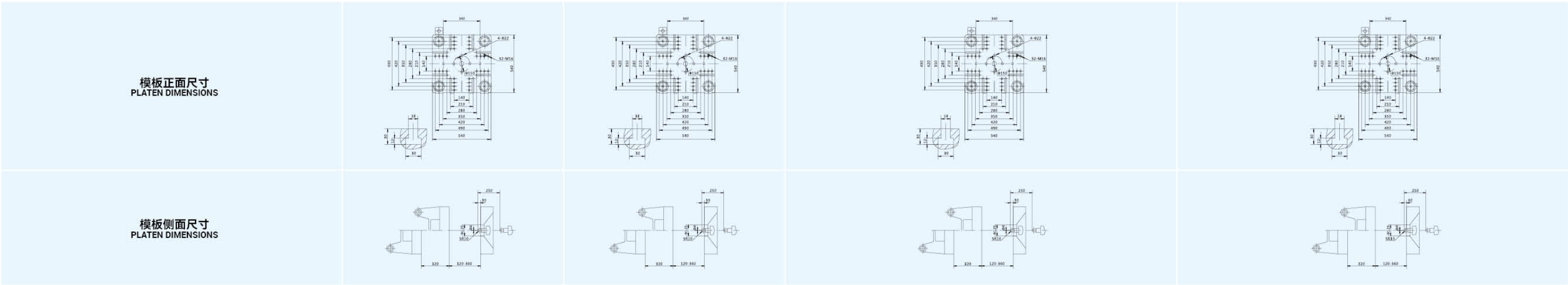
规格	SPECIFICATIONS		U100TSF9			U140TSF9			U170TSF9			U220TSF9			U270TSF9		
国际公认型号 / 公称射胶能力	INTERNATIONALLY RECOGNIZED MODEL		300			420			660			1070			1280		
注射	INJECTION UNIT		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
注射装置 INJECTION																	
螺杆直径	SCREW DIAMETER	mm	32	35	38	38	40	45	40	45	48	45	50	55	55	60	65
螺杆长径比	SCREW RATIO	L/D	24.1	22	20.3	23.2	22	19.6	24.8	22	20.6	24.4	22	20	24	22	20.3
理论注射容量 (PS)	THEORETICAL SHOT VOLUME	cm3	134.2	160.6	189.0	215.4	238.6	302.0	314.0	397.4	452.2	468.2	578.9	700.5	655.4	780.0	915.4
注射压力	INJECTION PRESSURE	MPa	222.1	185.7	157.5	193.3	174.5	137.8	210.0	165.9	145.8	226.8	183.7	151.8	194.3	163.3	139.2
理论注射重量 (PS)	THEORETICAL SHOT WEIGHT	g	122.2	146.1	172.3	196.0	217.2	274.8	285.7	361.6	411.5	426.7	526.8	637.5	596.4	709.8	833.0
理论注射速度	THEORETICAL INJECTION RATE	mm/s	140.0			180.0			180.0			140.0			140.0		
理论注射重量 (PS)	THEORETICAL SHOT WEIGHT	oz	4.30	5.10	6.00	6.878	7.654	9.665	10.0	12.7	14.4	15.0	18.5	22.4	20.9	24.9	29.2
螺杆转速	SCREW SPEED	rpm	270			250			250			230			250		
锁模装置 CLAMPING DEVICE																	
锁模力	CLAMPING FORCE	KN	1000			1400			1700			2200			2700		
移模行程	TOGGLE STROKE	mm	320			380			425			500			560		
拉杆内间距	SPACE BETWEEN TIE BARS	mm	400X360			460X420			510X467			565X520			620X565		
最大模具厚度	MAX MOULD HEIGHT	mm	360			440			500			530			600		
最小模具厚度	MIN MOULD HEIGHT	mm	120			140			170			200			200		
顶出行程	EJECTOR STROKE	mm	100			115			130			150			150		
顶出力	EJECTOR FORCE	KN	41			41			41			77			77		
顶出杆数	EJECTOR NUMBER		4+1			4+1			4+1			8+1			12+1		
模具孔直径	DIE HOLE DIAMETER	mm	125			125			125			160			160		
其他 OTHER																	
系统压力	SYS TEM PRESSURE	MPa	17.5			17.5			17.5			17.5			17.5		
加热功率	HETER POWER	KW	10			12.7			13.2			16.3			21.5		
油箱容积	TANK VOLUME	L	125			170			210			4			300		
机器重量 (约)	MACHINE WEIGHT (APPROX.)	Ton	3.1			4.2			5.3			7.4			9.4		
外形尺寸 (LxWxH)	OVERALL DIMENSIONS (LXWXH)	m	4.34x1.24x1.85			4.8x1.35x1.85			5.4x1.4x2.03			6.2x1.47x2.2			6.7x1.6x2.4		
伺服驱动器功率	SERVO DRIVE POWER	KW	15			30			37			37			45		

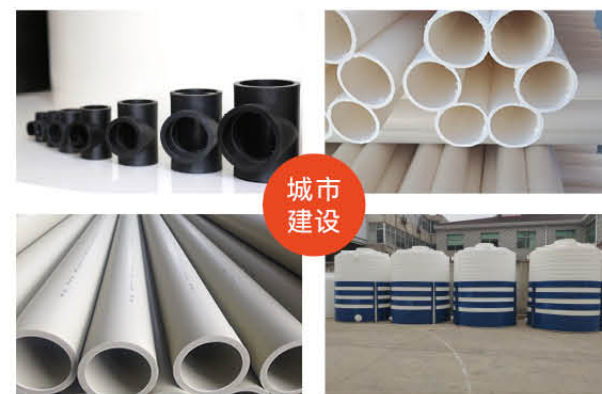


参数表

PARAMETER TABLE

规格	SPECIFICATIONS	U330TSF9				U388TSF9				U450TSF9				U550TSF9				
国际公认型号 / 公称射胶能力	INTERNATIONALLY RECOGNIZED MODEL	2020				2840				3060				3300				
注射	INJECTION UNIT	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	
注射装置 INJECTION																		
螺杆直径	SCREW DIAMETER	mm	60	65	70	75	65	70	75	80	70	75	80	85	75	80	85	90
螺杆长径比	SCREW RATIO	L/D	23.8	22	20.4	19.1	23.7	22	20.5	19.1	23.5	22	20.6	19.4	23.4	22	20.7	19.5
理论注射容量 (PS)	THEORETICAL SHOT VOLUME	cm3	1003.2	1177.4	1365.5	1567.5	1247.1	1446.3	1660.3	1889	1504.0	1726.5	1964.4	2217.6	1726.5	1964.4	2217.6	2486.2
注射压力	INJECTION PRESSURE	MPa	201.2	171.5	147.9	128.8	198.8	171.4	149.3	131.3	194.0	169.0	148.5	131.5	191.1	168.0	148.8	132.7
理论注射重量 (PS)	THEORETICAL SHOT WEIGHT	g	912.9	1071.4	1242.6	1426.5	1134.8	1316.1	1510.9	1719	1368.6	1571.1	1787.6	2018	1571.1	1787.6	2018.0	2262.4
理论注射速度	THEORETICAL INJECTION RATE	mm/s	140.0				150.0				160.0				145.0			
理论注射重量 (PS)	THEORETICAL SHOT WEIGHT	oz	32.0	37.6	43.6	50.1	39.8	46.2	53.0	60.3	48.0	55.1	62.7	70.8	55.1	62.7	70.8	79.4
螺杆转速	SCREW SPEED	rpm	190				246				250				220			
锁模装置 CLAMPING DEVICE																		
锁模力	CLAMPING FORCE	KN	3300				3880				4500				5500			
移模行程	TOGGLE STROKE	mm	620				660				740				840			
拉杆内间距	SPACE BETWEEN TIE BARS	mm	710X655				760X685				810X765				870X800			
最大模具厚度	MAX MOULD HEIGHT	mm	640				675				780				800			
最小模具厚度	MIN MOULD HEIGHT	mm	200				280				280				290			
顶出行程	EJECTOR STROKE	mm	150				170				170				225			
顶出力	EJECTOR FORCE	KN	77				99				90				152			
顶出杆数	EJECTOR NUMBER		12+1				12+1				12+1				12+1			
模具孔直径	DIE HOLE DIAMETER	mm	160				160				200				200			
其他 OTHER																		
系统压力	SYS TEM PRESSURE	MPa	17.5				17.5				16				16			
加热功率	HETER POWER	KW	23.5				27				30.5				33			
油箱容积	TANK VOLUME	L	440				700				750				900			
机器重量 (约)	MACHINE WEIGHT (APPROX.)	Ton	11				13.5				18.5				20.5			
外形尺寸 (LxWxH)	OVERALL DIMENSIONS (LXWXH)	m	6.8x1.6x2.42				7.2x2x2.46				8x2.1x2.53				8.6x2.3x3.1			
伺服驱动器功率	SERVO DRIVE POWER	KW	55				65				30+45				37+45			





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