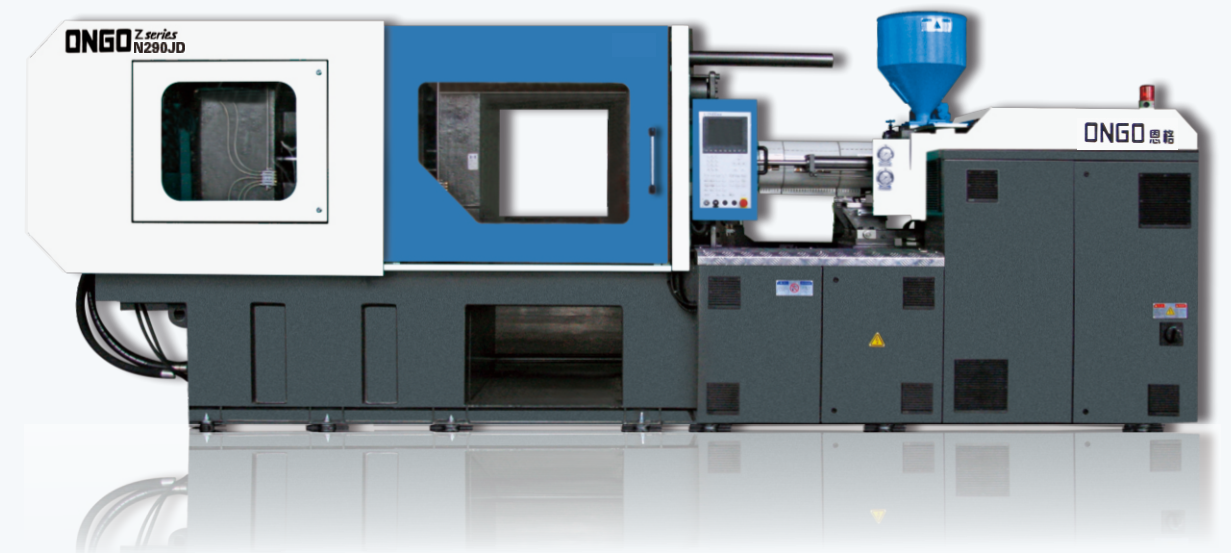


NINGO 恩格

包装注塑产品专业设备
Professional Equipment For Injection Molding Products

最新科技 行业领先

Latest technology industry leader



THIN WALL

HIGH SPEED MACHINE

恩格薄壁高速机系列 SERIES

宁波恩格精密机械有限公司

地址：宁波镇海骆驼荣吉路618号

电话：+86-574-56800583

传真：+86-574-56800598

邮箱：24155251@QQ.com

网址：www.chinaongo.com

NINGBO ONGO PRECISION MACHINERY CO.,LTD

Add:No.618,Rongji Road,Zhenhai,
Ningbo,Zhejiang,P.R.China

TEL:+86-574-56800583

FAX:+86-574-56800598

E-mail：24155251@QQ.com

Http：//www.chinaongo.com

公司简介

BRIEF INTRODUCTION

专注品质，创新科技
Focus on Quality Innovation and Technology



经营理念Business philosophy

以提供优质产品和服务为核心价值；以技术创新和研发为动力源泉；以诚实守信为基本原则。

Our core value is to provide high quality products and excellent service；Constant technology innovation and development is the engine of growth source；Honesty and responsibility is our basic principle .

公司愿景Corporate vision

以成就客户为己任，用我们优质的产品和服务帮助每位客户获得成功，我们愿与每一位客户共同发展成长。

To help every customer success with our high quality products and excellent service and then grow our business together .

服务宗旨Service tenet

我们根据每个客户的特定要求，专门为客户定制薄壁注塑机、提供整体解决方案，并提供技术服务及指导。

We specialize in developing customized thin-wall injection machine，integrated solutions and technical service according to customer's specific requirements .

公司使命Corporate mission

客户所追求的，正是我们一直在努力的。我们将一如既往地为广大客户提供最优质的产品和服务，诚挚欢迎中外客商洽谈业务，开展合作，携手并进，共创辉煌！

We have been making efforts to meet customer's demand and will always provide our best products and service to every customer . We welcome your presence discussion sincerely altogether will create the glorious future .

"恩格"品牌前身始创于1992年，历时近20余载勤恳经营，融合具有10余年专业高档注塑机开发制造经验的精英团队，运用现代开发技术，科学管理模式，精心打造出"恩格"品牌Z系列700-30000kN合模力的高档注塑成型机。

公司地处宁波工业机电园区，占地60000多平方米，年生产能力可达到3000余台。

"专业铸就品质，科技塑造未来"，凭借领先的技术，强大的生产能力，科学的管理和以客户为中心的理念，公司已然成为中国塑机业最具活力的企业之一！

The precursor of "ONGO" was established in 1992. After more than 20 years running,we have formed a professional team with more than 10 years developing and manufacturing experience in high-grade plastic injection machine.We adpot morden development technology and scientific management system to build "ONGO" Z series high-grade plastic injection molding machine from 700KN to 30000 KN clamping force.

The company is situated in Ningbo Industrial Electomechanical Park, covers an area of more than 60000 square meters with an annual output of some 3000sets.

"The profession guarantees quality, the technology creates future" . Depending on up-to-date technology, strong productivity, scientific management and customer-oriented concept, the company has been one of the most active enterprises in plastic machine industry in China!

生产品质

QUALITY IN MANUFACTURING

我们的文化

OUR CULTURE

我们的产品在ISO9001质量管理体系控制下，每个零部件从材质选择，到加工生产、组装，每个环节都经过严格检验。为确保100%的合格率，整机必须通过72小时以上连续的可靠性能测试。

Under the control of ISO9001 management system, from material selection to processing, production and assembling, each step is inspected strictly. In order to reach 100% eligible rate, the machine shall be given more than 72h-continuous test in performance reliability.

卓越的执行，永恒的创新

如果说物质能给人以享受和欢乐，那么，文化将能给人以回味和充实；如果说物质终将会因消耗而殆尽，因发展而变迁，那么，文化则将会因沉淀而厚重，因积累而创新。因此，恩格精密机械在制造产品的同时，产出文化，在提供产品的同时，展示文化，让文化伴随着产品成长，让产品跟随着文化提升，让企业在产品和文化两翼的鼓动下，持续、快速、健康向前。

EXCELLENT IMPLEMENTATION, ETERNAL INNOVATION

If we say material brings comfort and happy, well then, culture bring aftertaste and enrichment. If we say material will be used up for consumption and be changed for development, well then, culture will be deepened for precipitation and be innovated for accumulation. Thus, Onco produce both product and culture. The culture grows with the product, meanwhile The product promotes the culture. The enterprise will move on continuously, quickly, healthily with the two wings of product and culture.



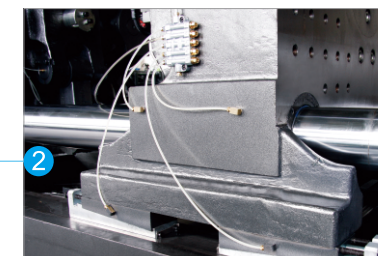
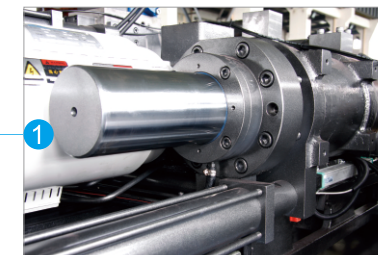
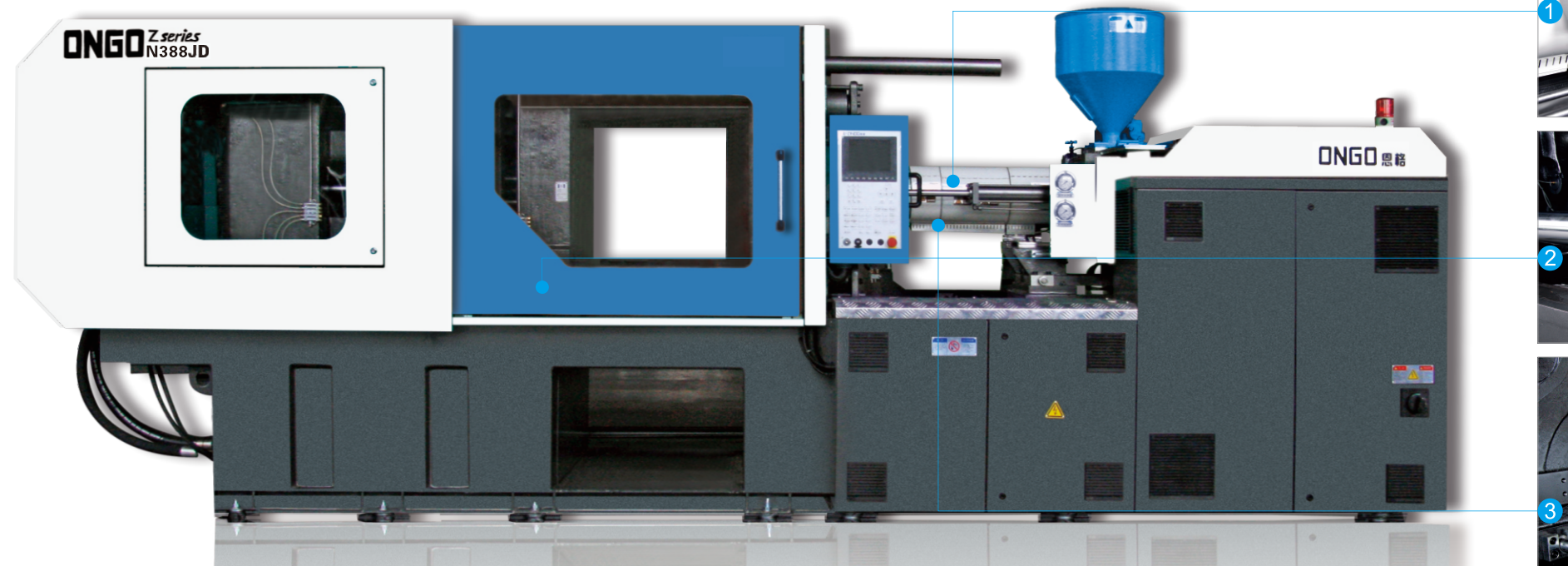
恩格薄壁高速机系列

THIN WALL HIGH SPEED MACHINE SERIES

恩格坚持不懈的将先进的注塑技术引入市场，在客户的紧密合作下，我们不断寻求机械工程和成型工艺方面的解决方案。

恩格薄壁高速机系列全面提升设计平台，针对短周期快速成型中机器漏油、机械寿命不足等等问题进行大幅改良。并采用现代化加工工艺，先进的注射控制方式，确保整机响应高效率、性能高稳定。

恩格薄壁高速机系列性能卓越，广泛应用与塑料加工行业，尤其对于薄壁制品、多腔制品，以及传统行业的提效增产作用显著。



1 注射油缸双出杆Injection cylinder double rod

专用注射活塞双出杆设计，受力平衡，可延长射胶油封使用时间。大幅减少高速注射时回油油量，从而降低注射时回油阻力。
Special injection piston rod design, the force balance, Can prolong the use time of oil seal oil seal. Significantly reduce the amount of oil back to the high speed of injection, So as to reduce the oil resistance of injection.

高速注射Injection speed

引进高速低压注塑机多动作复合运行设计理念，提高薄壁类制品生产效率。
Parallel movement and high-speed/low presure injection movement that shortens circle time , especially for thin wall products.

低阻力设计Low frication design

射移部分采用线性导轨设计，减少运行时移动部件的摩擦阻力，缩短注射加速时间。
The injection unit used linear guide , to minimize the friction and increase speed during injection.

2 全新设计加强型模板New design enhanced template

采用适合薄壁精密产品成型的加强型模板，经过有限元技术分析，优化结构，降低应力，提升模板刚性。
Improved platen with high rigidity structurew. especially suit to thin-wall products.

拉杆Tie bar

拉杆采用合金钢材质并加大设计，延长高速运行工况下的使用寿命。
The tension rod is made of alloy steel and strengthening design , to extend the service life of high speed running condition.

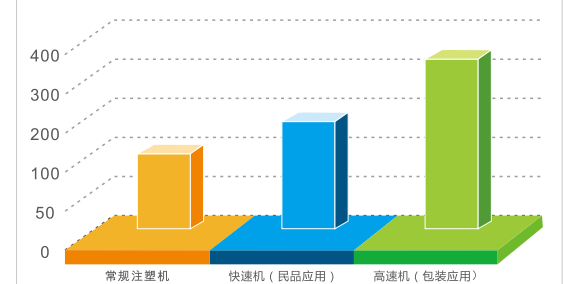
3 螺杆料筒Screw&barrel

可选装红外线保温装置，具有加热快、省电节能、使用寿命长等优点，进一步提升塑化品质。
Can be optional infrared thermal insulation device, has the advantages of fast heating, energy saving, long life and other advantages, to further enhance the plasticization quality.

快速, 稳定, 更低维护成本
Fast, stable, lower maintenance costs

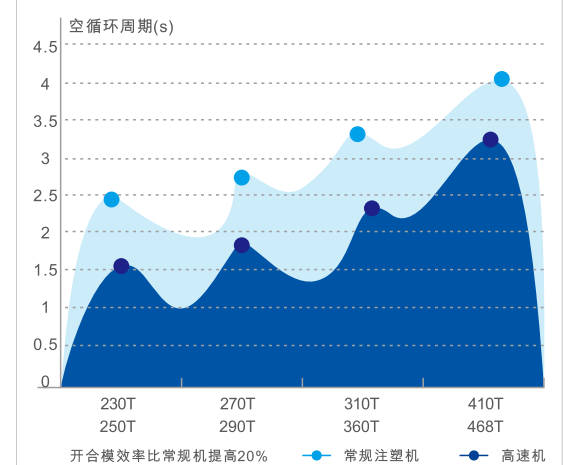
高注射速度:

高速填充形成较低的产品内压力，减少变形，有利于产品质量的降低。
注射速度(mm/s)



注：不同射速适合不同产品的应用

空循环周期更短:



ONGO persistent advanced injection molding technology is introduced into the market, in close cooperation with customers, we constantly seek solutions in mechanical engineering and forming technology.

ONGO speed thin-wall machine series to enhance the design platform, in the short period of rapid prototyping machine for oil spills, mechanical life, etc. problems are significantly improved. And the use of modern processing technology, advanced injection control mode, to ensure that the overall response to high efficiency, high performance stability.

ONGO thin-walled high speed machine series of excellent performance, widely used in plastic processing industry, especially for thin-walled products, multi cavity mold, and traditional industries provided effect yield significantly.

Thin Wall Bowl Series

薄壁餐盒系列



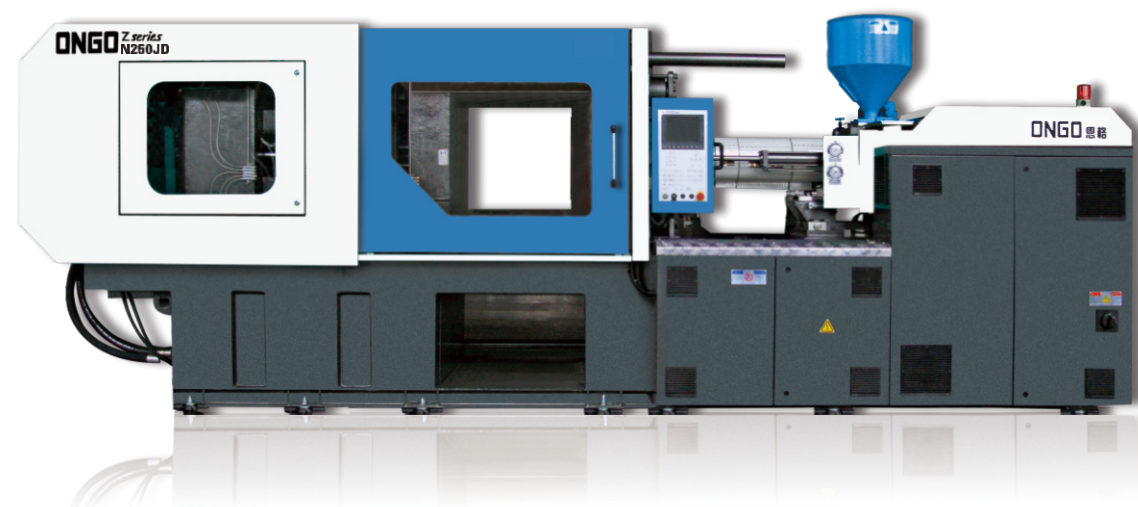
名称：异形快餐盒

原料：PP

主打产品：三格/四格/五格/非标

使用机型：250

成型周期：约4.3s



Thin Wall Bowl Series

薄壁餐盒系列



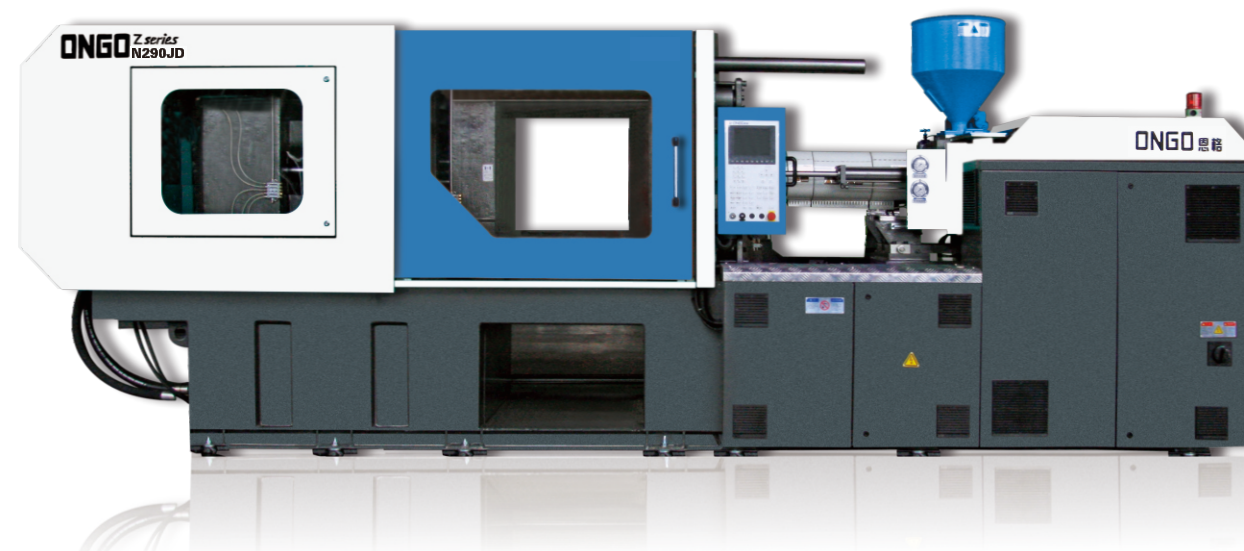
名称：快餐盒

原料：PP

主打产品：1250/1750方型圆型一出二

使用机型：290

成型周期：约5.3s



Thin Wall Bowl Series

薄壁餐盒系列 ■■■■■■



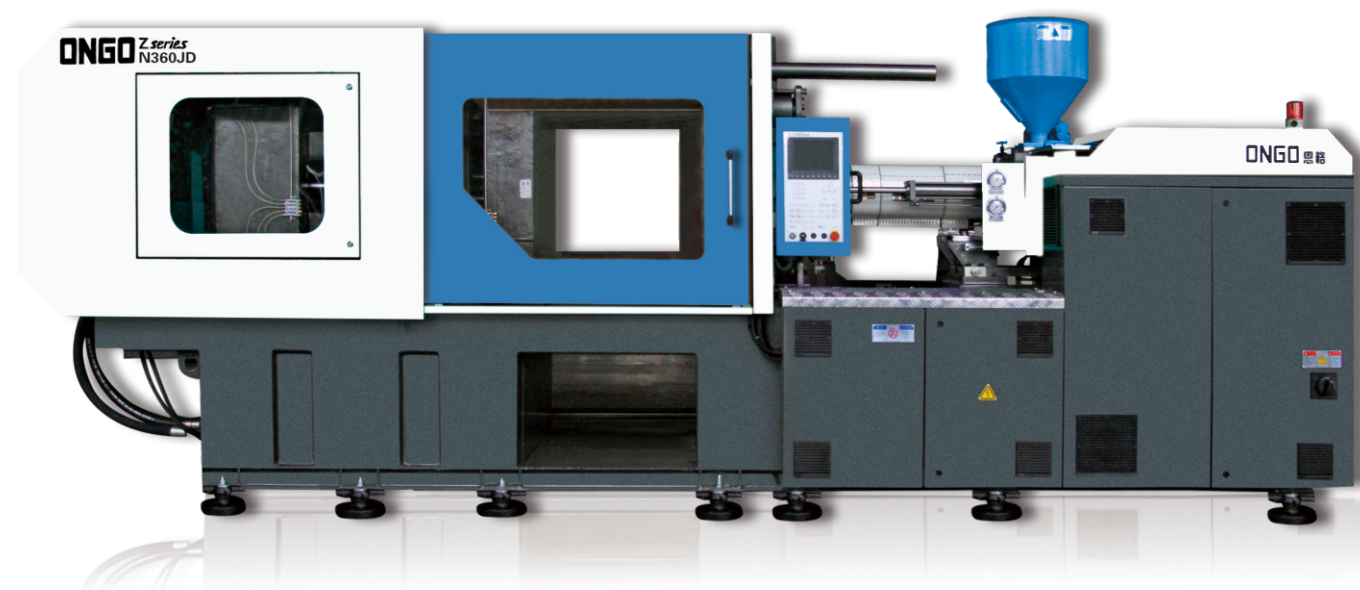
名称：快餐盒

原料：pp

主打产品：1000/750圆底方底一出四 1000/750圆盖方盖一出六

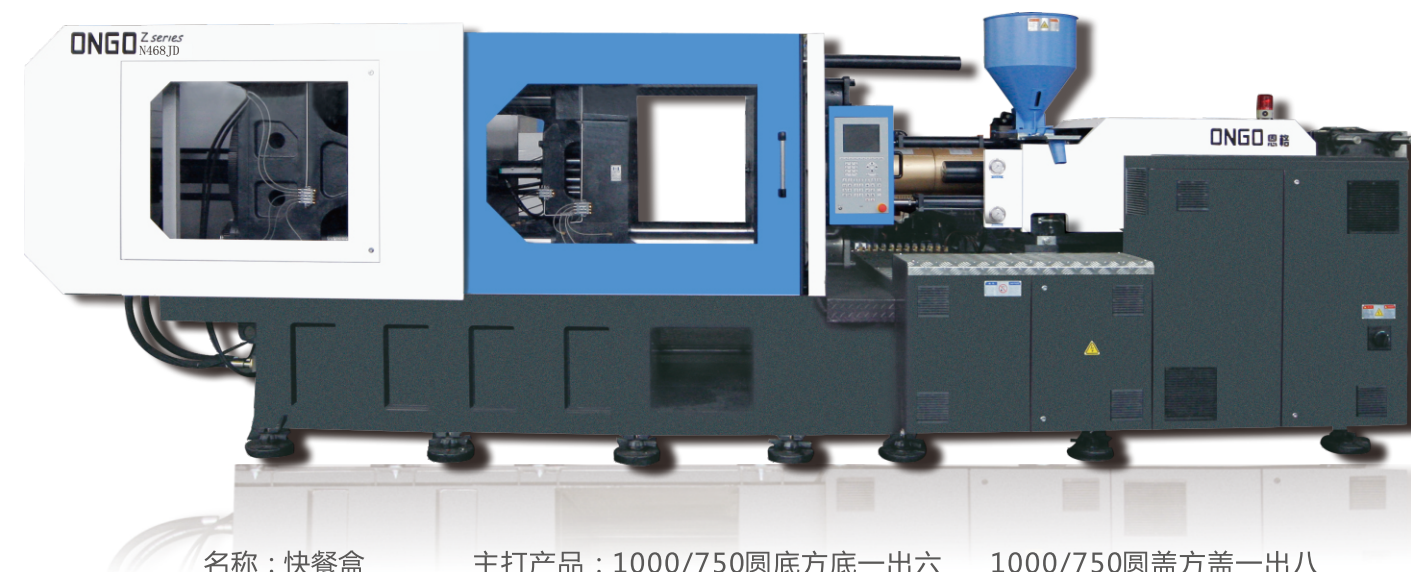
使用机型：360

成型周期：约5.3s



Thin Wall Bowl Series

薄壁餐盒系列 ■■■■■■



名称：快餐盒

原料：pp

主打产品：1000/750圆底方底一出六 1000/750圆盖方盖一出八

四十四叠模 圆底方底 圆盖方盖

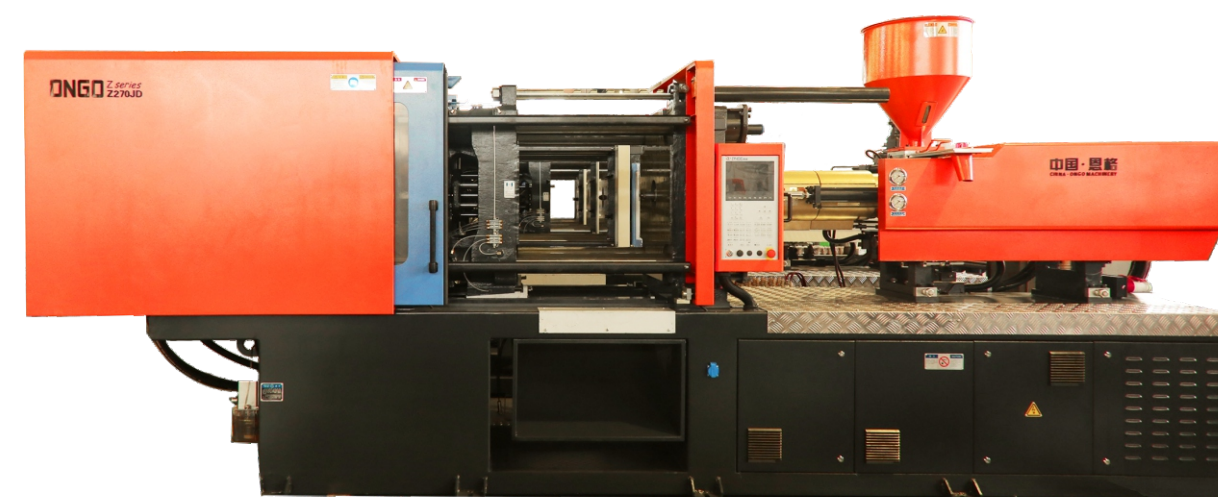
使用机型：468

成型周期：约5.7s



Knife And Fork Special Moulding Series

刀叉专用注塑机系列 ■■■■■■



行业应用 INDUSTRY APPLICATION

民用家居 Civilian Home Furnishing

名称：简易衣架

原料：PP

重量：35g

模具模穴：1出4

使用机型：290

成型周期：约18s

Name: simple hanger

Raw materials: PP

Weight: 35g

Die cavity: 4

Use models: 290

Molding cycle: ~18s



民用家居 Civilian Home Furnishing

名称：1100ml保鲜盒

原料：PP高透明

重量：75g

模具模穴：1出4

使用机型：360

成型周期：约22s

Name: 1100ML Fresh box

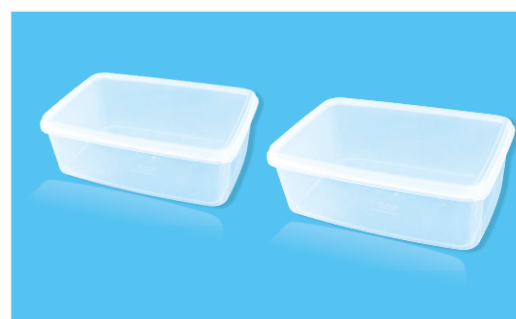
Raw material: PP high transparency

Weight: 75g

Die cavity: 4

Use models: 360

Molding cycle: ~22s



餐饮用品 Catering supplies

名称：一次性刀叉勺

原料：pp

重量：根据实物产品

模具模穴：32

使用机型：360,290

成型周期：约9s

Name: Disposable knife fork spoon

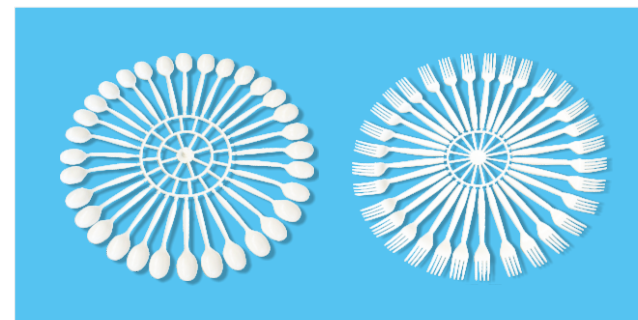
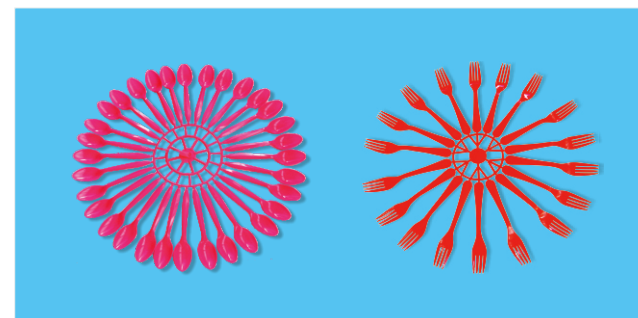
Raw materials: PP

Weight: According to the physical product

Die cavity: 32

Use models: 360,290

Molding cycle: ~9s



医疗行业 Medical industry

名称：针筒

原料：pp

重量：根据实物产品

模具模穴：1出48

使用机型：290

成型周期：约20s

Name: Needle

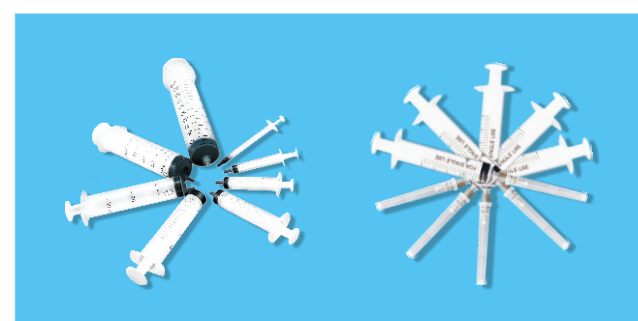
Raw materials: PP

Weight: According to the physical product

Die cavity: 48

Use models: 290

Molding cycle: ~20s

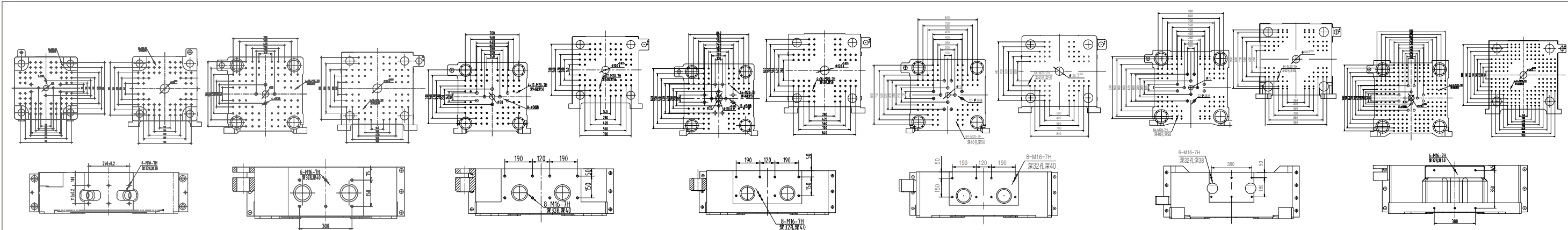


技术参数
TECHNICAL PARAMETERS

快速，稳定，更低维护成本

Fast, stable, lower maintenance costs

项目	ITEM	单位	ZK270		N250	N290	N360	N388	N468	N550
注射装置	INJECTION UNIT		B	C						
螺杆直径	SCREW DIAMETER	mm	55	67	50	50	50	60	60	60
理论注射容量	SHOT VOLUME(THEORETICAL)	cm3	641	951	491	491	530	834	834	834
注射重量	INJECTION WEIHT(PS)	g	583	866	446	446	482	759	759	759
注射速度	INJECTION SPEED	mm/s	146		243	317	438	346	453	359
注射速率	INJECTION RATE	g/s	315	468	434	566	782	891	1165	923
注射压力	INJECTION PRESSURE	Mpa	169	114	154	154	171	176	176	185
螺杆转速	SCREW SPEED	rpm	263		333	434	450	450	450	450
射移拉力（双射移）		KN	84		84	84	84	110	110	110
注射行程		mm	270		250	250	270	295	295	295
锁模装置	CLAMPING UNIT									
锁模力	CLAMPING FORCE	kN	2700		2500	2900	3600	3880	4680	5500
移模行程	OPEN STROKE	mm	540		495	545	613	660	730	755
拉杆间距(宽*高)	SPACE BETWEEN TIE BARS(W×H)	mm	565*565		525*525	580*580	625*625	685*625	735*715	780*780
最大模厚	MAX.MOULD HEIGHT	mm	510		575	550	660	660	780	850
最小模厚	MIN.MOULD HEIGHT	mm	160		245	250	365	320	320	330
顶出行程	EJECTOR STROKE	mm	150		150	150	162	162	172	202
顶出力	EJECTOR FORCE	kN	70		70	80	80	80	80	110
其他	OTHERS									
最大油泵压力	MAX.PUMP PRESSURE	MPa	16		16	16	16	16	16	16
油泵电机功率(伺服)	PUMP MOTOR POWER(SERVO)	kW	31		40	54	80	80	96	96
电热功率	HEATING POWER	kW	22.9		16.5	16.5	23.2	28.4	28.4	28.4
外形尺寸(长*宽*高)	MACHINE DIMENSION(L×W×H)	m	6.1*1.6*2.25		6*1.75*2.2	6.1*1.8*2.2	7.05*2*2.2	7.1*2*2.2	8.2*2.1*2.3	8.9*2.2*2.3
油箱容积	OILTANK CUBAGE	L	380		380	380	500	500	700	700
机器重量	MACHINE WEIGHT	t	8		10.5	12	15.5	17	22.5	25



ZK270

N250

N290

N360

N388

N468

N550

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