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Technology Connecting China And Europe

连接中欧成型技术

Ufi Approved Level  Chinaplas® 2018

海外合作伙伴 Overseas technology partners

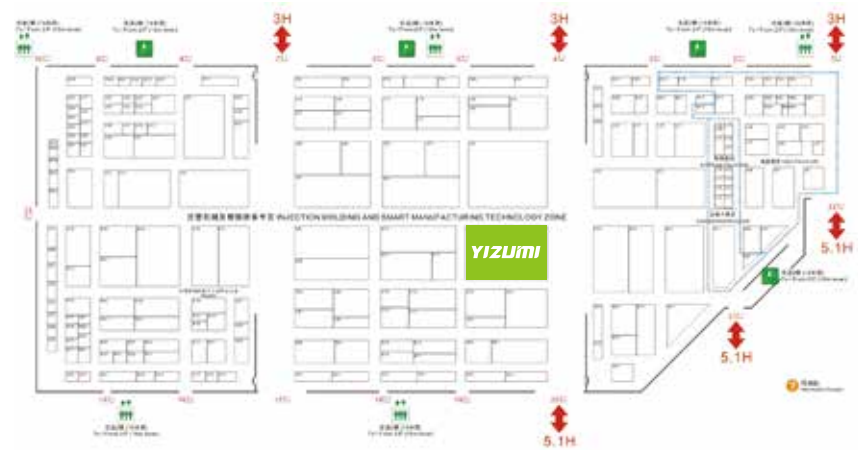


国内合作伙伴 Domestic technology partners



4.1E61

伊之密展位示意图
YIZUMI'S BOOTH DIAGRAM



ufi Approved Event **CHINAPLAS 2018**

24-27/4/2018

National Exhibition and Convention Center
Hongqiao, Shanghai

国家会展中心(上海·虹桥)



Hall 4.1H 馆

FoamPro+DecoPro

汽车装饰功能件升级换代方案

FoamPro+DecoPro Upgraded Solution for Functional Deco Parts

DP系列两板式注塑机

DP Series Two-platen Injection Molding Machine

UN1000DP



简介/Introduction

UN1000DP两板式注塑机以出色的SmartClamp智能锁模系统和FLEXflow伺服针阀热流道系统，搭载背注塑技术和膜内刻纹技术，将背注塑贴膜和微发泡工艺结合，打造FoamPro + DecoPro的汽车装饰功能件升级方案。

The UN1000DP two-platen injection molding machine, which is equipped with the high-performance SmartClamp system and FLEXflow servo-driven valve-gated hot runner system and paired with back injection technology and in-mold graining, combines back molding, IMG and MuCell process and develops into the FoamPro+ DecoPro solution for decorative car parts.

重点推介

Highlights

- 高效: 干周期达4.1秒, 生产效率提高22%
- 精密: 制品重复精度<3%, 模板平行度控制精度 $\pm 0.015\text{mm}/2\text{ms}$
- 节能: 能耗降低达56%
- High efficiency: dry cycle time 4.1 seconds, 22% higher production efficiency
- Precision: molded part repeatability <3%, platen parallelism control accuracy up to $\pm 0.015\text{mm}/2\text{ms}$
- Energy-saving: 56% lower energy consumption

参展案例介绍 (UN1000DP)

UN1000DP Application Example

产品名称: 汽车发动机盖

成型腔数: 1

成型材料: 1. AKROMID® A28 GF 30 EN MCL black (5966)

2. Aluminium foil - Lyondell Basell PIT technology

制品尺寸: (L x W x H): 400 x 350 x 25mm

制品重量: 445g

成型周期: 60s

Part: automotive engine cover

Cavity number: 1

Material: 1. AKROMID® A28 GF 30 EN MCL black (5966)

2. Aluminium foil - Lyondell Basell PIT technology

Size: 400(L) x 350(W) x 25(H)mm

Part weight: 445g

Cycle time: 60s



合作伙伴/ Partner:



· 以上数据为伊之密厂内测试检验标准供参考
· Data above are reference criterions for factory tests

MultiPro多物料成型方案

MultiPro Injection Molding Solution

C系列高端多物料成型注塑机

C Series High-end Multi-component Injection Molding Machine

UN260C-BTP



简介/Introduction

伊之密C系列高端多物料注塑机是围绕MultiPro应用研发的新机型，通过多工艺成型降低缩水提升合格率，不仅是不同颜色塑料的结合成型，还能通过模内装配或模内特殊工艺实现制品的各种功能。

The C series high-end multi-component injection molding machine is newly-developed for MultiPro applications. It is capable of improving the molded part quality and reducing shrinkage with the use of multiple processes. The C series can mold multi-color parts and give them various functions through in-mold assembly or other special in-mold processes.

重点推介 Highlights

- BFC对称均力锁模技术: 制品不易飞边, 成型精度高、稳定;
- MLT 磁浮转盘技术: 磁浮非接触转动, 降低摩擦损耗, 动作更稳定;
- DCPC数字闭环定位技术: 响应快、定位准、生产更稳定;
- 低惯量精密注塑单元: 提升射胶精度;
- 模块式个性定制设计: 模块化独立测试, 多种射台灵活快速搭配;
- Balanced force clamping technology: minimized possible flashes, high molding accuracy and stability
- Magnetically levitated turntable technology: non-contact rotation with less frictional loss and more stable movements
- Digital closed-loop positioning technology: quick response, accurate positioning and more stable production
- Low inertia precision injection unit: improve the precision of the injection
- Modular custom design: individual modular testing, multiple types of injection unit available for quick and flexible combination



参展案例介绍 (UN260C-BTP)

UN260C-BTP Application Example

产品名称: 双物料杯子
成型腔数: 1
成型材料: PCTG+ABS
制品容量: 400ml
成型周期: 60s

Part: two-component cup
Number of cavity: 1
Material: PCTG+ABS
Cup capacity: 400ml
Cycle time: 60s

合作伙伴/ Partner:

TOPSTAR
拓斯达

SWITEK

OpticPro光学产品成型方案

OpticsPro Injection Molding Solution for Optical Applications

FF飞凡系列电动注塑机

FF Series All-electric Injection Molding Machine

FF120



简介/Introduction

伊之密 FF 飞凡系列电动注塑机，将全新设计的机械结构以及全方位升级的伺服系统巧妙融合，可实现在低速低压的全自动运转模式下稳定输出高品质的液态硅胶 (LSR) 产品，应用范围更广泛。

The FF series all-electric injection molding machine, based on ingenious combination of the newly-designed mechanical structure and fully upgraded servo system, is capable of stably producing LSR parts under low-speed, low-pressure fully-auto mode, becoming more widely applicable.

重点推介 Highlights

- 多样化选择: 120T~460T锁模力, 9种射台, $\Phi 26\sim\Phi 92\text{mm}$ 螺杆;
- 产品特性: 透光率高达95%, 耐热抗黄变;
- 应用范围: 路灯透镜, 车灯透镜, 汽车导光条;
- Various options: 120T-460T clamping force, 9 types of injection unit, $\Phi 26\sim\Phi 92\text{mm}$ plasticizing screw
- Product features: light transmittance up to 95%, heat and yellowing resistance
- Applications: street lamp lens, headlight lens, light guide



参展案例介绍 (FF120)

FF120 Application Example

产品名称: 液态硅胶路灯透镜

成型腔数: 1

成型材料: 高透明液体硅胶 (LIM1030-70AB)

制品重量: 123g

成型周期: 310s

制品尺寸: 128mm × 93mm × 30mm

Part: LSR street light lens

Number of cavity: 1

Material: Highly transparent LSR (LIM1030-70AB)

Part weight: 123g

Cycle time: 310s

Part dimensions: 128mm × 93mm × 30mm

合作伙伴/ Partner:



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化妆品包装产品成型方案

Cosmetic Packaging Solution

A5S升级版标准型高端伺服注塑机

A5S Series Upgraded High-end Servo Injection Molding Machine

UN260A5S



简介/Introduction

伊之密A5S系列升级版高端伺服注塑机，为化妆品包装行业提供整体解决方案。实现机器的快速熔胶、稳定生产和位置控制精准，确保制品重复精度高。

The A5S series upgraded high-end servo injection molding machine provides a turnkey solution for the cosmetics packaging industry. It delivers fast plasticizing, stable production and accurate position control and ensures high repeatability of the plastic parts.

重点推介

Highlights

- 精密稳定: 在标准成型条件下, 位置控制精度 $\pm 0.2\text{mm}$, 产品重量重复精度 $\leq 3\%$;
- 快速高效: 采用新一代升级螺杆料管组件, 熔胶速率快、反应速度快;
- Precise and stable: under standard molding conditions, position control accuracy up to $\pm 0.2\text{mm}$, part weight repeatability $\leq 3\%$
- Fast and efficient: using upgraded screw and barrel assembly with fast plasticizing and quick response



参展案例介绍 (UN260A5S)

UN260A5S Application Example

产品名称: 喷雾方枪枪体
成型腔数: 24
成型材料: PP (T30S)
制品重量: $3.6\text{g} \times 24$
每模重量: 160.4g (含水口)
成型周期: 28s

Part: trigger sprayer
Number of cavity: 24
Material: PP (T30S)
Part weight: $3.6\text{g} \times 24$
Total part weight per cycle: 160.4g (gate included)
Cycle time: 28s

合作伙伴/ Partner:

TOPSTAR
拓斯达

QH MAG
千豪磁电

XIAOMA

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PacPro 薄壁包装产品成型方案

PacPro Injection Molding Solution for Thin-walled Packaging

高速成型薄壁容器IML系统

High-speed IML System for Thin-walled Container

PAC200



简介/Introduction

PAC 系列薄壁注塑系统解决方案适合薄壁包装类容器产品的高速注射成型，具有高精度、高效率的成熟可靠技术，并为客户量身定制一站式解决方案，提供机器、模具、辅机和售后服务在内的高品质注塑方案和交钥匙工程服务，满足客户未来多样化的生产需求。

The PAC series is a solution to high-speed injection molding of thin-walled packaging and features high-precision, efficient and reliable technology. We also provide customers with tailor-made, high-quality, turnkey injection molding solutions that cover the machines, molds, auxiliary equipment and after-sales services to meet diversified production needs of customers in the future.

重点推介 Highlights

- 生产周期缩短, 效率有所提升;
- 制品重量、尺度精度高;
- 减少生产成本;
- Shorter production cycle and higher efficiency
- High repeatability of part weight and dimensions
- Less production costs



参展案例介绍 (PAC200)

PAC200 Application Example

产品名称: 小杯贴标
模具: 伊之密
成型腔数: 4
成型材料: PP980
制品重量: $6.5\text{g} \times 4$
成型周期: $\leq 3\text{s}$

Part: small IML cup
Mold supplier: Yizumi
Number of cavity: 4
Material: PP980
Part weight: $6.5\text{g} \times 4$
Cycle time: $\leq 3\text{s}$

合作伙伴/ Partner:

TOPSTAR
拓斯达

SWITEK

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UN1000DP技术参数

Technical Specifications of UN1000DP

UN1000DP MuCell			
说明	DESCRIPTION	UNIT	
射胶部分 Injection Unit			
			9000
螺杆直径	Screw diameter	mm	100
理论注射容积	Shot volume	cm ³	4320
实际射量	Shot weight(ps)	g	3974
注射压力	Injection pressure	Mpa	209
螺丝长度直径比	Screw L/D ratio	L/D	24
注射速率	Injection rate	cm ³ /s	766
最大注射速度	Max.injection speed	mm/s	97.6
螺杆行程	Screw stroke	mm	550
螺杆转速	Max.screw speed	r/min	128
螺杆扭矩	Screw torque	Nm	11982
塑化率 (PS)	Plasticizing rate(PS)	g/s	150
电热功率	Heating capacity	Kw	46.52
料筒加热区数	Barrel heating zone number	PCS	7
射嘴接触力	Nozzle contact force	kN	263.8
射移行程	Carriage stroke	mm	760
锁模部分 Clamping Unit			
锁模力	Clamping force	kN	10000
开模力	Opening force	kN	875
模板尺寸	Platen size	mm	1900x1850
导柱内间距	Space between tie bars	mm	1310x1200
模厚	Mold thickness	mm	500-1200
最大开模行程	Max.opening stroke	mm	1850
模板最大间距	Max.daylight	mm	2350
项出力	Ejector force	kN	274
项出行程	Ejector stroke	mm	360
项出点数	Ejector number	pcs	25
电气液压部分 Electrical & Hydraulic Units			
系统压力	System pressure	MPa	17.5, 25
马达	Motor	kW	39.4+39.4+31
装机容量	Total power	kW	156.3
整机参数 General			
油箱容积	Oil tank capacity	L	1600
干周期	Dry cycle time	s/mm	4.1/917
模具最大重量	Max. mold weight	T	20
整机重量 (锁模+射胶, 无油)	Machine weight(clamping + injection units,no oil)	T	39+14

UN260C-BTP参数表

Technical Specifications of UN260C-BTP

说明	DESCRIPTION		UN260C-BTP					
国际标准规格	International specification	UNIT						
射胶单元 INJECTION UNIT								
			iA630			iB300		
			A	B	C	A	B	C
螺杆直径	Screw diameter	mm	Φ43	Φ48	Φ53	Φ30	Φ35	Φ40
长径比	Screw L/D ratio	L/D	22.3	20	20	24	20	20
理论射出容积	Shot volume(theoretical)	cm ³	298	371	452	117	159	207
射出量	Injection weight	gr am	274	341	416	107	146	191
注射压力	Injection pressure	Mpa	213	171	140	257	189	145
射出速度	Injection speed	mm/s	94			105		
射出率	Injection rate	g/s	126	157	191	68	93	122
理论塑化能力	Plasticizing capacity(theoretical)	g/s	25.5	35.5	47.8	7.6	12	18
螺杆转速	Screw speed	rpm	250			219		
螺杆行程	Screw stroke	mm	205			165		
锁模单元 CLAMPING UNIT								
闭模力	Clamp tonnage	KN	2600					
夹模行程	Toggle stroke	mm	460					
模厚	Mold height	mm	200-560					
转盘直径	Diameter of rotational mold adapter	mm	1015					
转盘承重	Bearing capacity of rotary platen	t	1.2					
模具定位中心距	Distance between mold positing centers	mm	490					
大柱内距	Space between tie bars	mm	920×570					
顶出行程	Ejector stroke	mm	110					
顶出力	Ejector Tonnage	KN	34×2					
其他 GENERAL								
最大油泵压力	Max.pump pressure	Mpa	17.5					
电机功率	Pump motor power	Kw	17.6			11		
电热功率	Heater power	Kw	10.9/12.1			6.9/7.8		
最高系统压力	Hydraulic system pressure	kg/cm ²	17.5					
外形尺寸(LxWxH)	Machine dimensions(L×W×H)	m	6.5×2.1×2					
机械重量	Machine weight	t	10					
料斗容积	Hopper capacity	Kg	40					
油箱容积	Oil tank capacity	L	450					

FF120参数表

Technical Specifications of FF120

说明	DESCRIPTION	FF120											
注射单元 INJECTION UNIT													
规格	IU	210			300			430					
		A	B	C	A	B	C	A	B	C			
螺杆直径	Screw diameter	mm	26	30	35	30	35	43	35	43	48		
射出容积	Injection capacity	cm ³	74	99	135	122	165	250	185	279	347		
注射量	Shot weight	g	68	90	123	111	151	227	168	254	316		
塑化能力	Plasticating capacity	g/s	10.4	15.6	20.1	15.6	20.1	28.9	20.1	28.9	35.3		
注射速度/选配	Injection speed std./opt.	mm/s	200/120			200/120			200/120				
注射压力	Injection pressure	MPa	266	200	147	272	200	133	272	180	144		
保压压力	Holding pressure	MPa	213	160	118	218	160	106	217	144	116		
射嘴接触力	Nozzle contact force	kN	20			30			40				
锁模单元 CLAMPING UNIT													
锁模力	Clamping force	kN	1200										
开模行程	Mold opening stroke	mm	370										
导柱内间	Distance between tie-bars	mm	480x480										
容模	Mold thickness	mm	150-480										
顶出行程	Electric ejector stroke	mm	100										
顶出力	Electric ejector force	kN	30										

UN260A5S参数表

Technical Specifications of 260A5S

说明	DESCRIPTION	UNIT	UN260A5S		
国际标准规格	International specification		1269/2600		
射胶单元 INJECTION UNIT					
			A	B	C
理论注射容积	Shot volume	cm ³	584.6	749.3	962.4
实际注射量	Shot weight (PS)	g(克)	537.8	689.4	885.4
		oz(盎司)	19	24.3	31.2
螺杆直径	Screw diameter	mm	53	60	68
注射压力	Injection pressure	MPa	217.1	169.4	131.8
注射速率	Injection rate	g/s	160.3	205.5	263.9
螺杆长径比	Screw L:D ratio		22.6:1	20:1	20:1
最大注射速度	Max. injection speed	mm/s	79		
螺杆行程	Screw stroke	mm	265		
螺杆转速	Screw speed(stepless)	r/min	0-162		
锁模单元 CLAMPING UNIT					
锁模力	Clamping force	kN	2600		
开模行程	Opening stroke	mm	530		
导柱内间距 (WxH)	Space between tie bars	mmxmm	610x570		
模板最大距离	Max. daylight	mm	1140		
容模量(最薄 - 最厚)	Mold thickness(min.max.)	mm	195-610		
顶出行程	Ejector stroke	mm	160		
顶出孔数量	Ejector number		13		
顶出力	Ejector force	kN	77		
动力 / 电热 POWER UNIT					
最大系统压力	Hydraulic system pressure	MPa	17.5		
油泵马达	Pump motor power	kW	28.7		
电热功率	Heater power	kW	16.6/19		
温度控制区数	Number of temp control zones		5		
其它 GENERAL					
干循环时间	Dry cycle time	s	2.8		
油箱容量	Oil tank capacity	L	335		
外形尺寸 (LxWxH)	Machine dimensions(LxWxH)	mxmxxm	6.24x1.64x2.39		
设计重量	Design weight	kg	8500		

PAC技术参数

Technical Specifications of PAC

规格	Model	PAC150	PAC200	PAC250	PAC300	PAC350
注射装置	Injection unit	440	440	840	1480	2180
螺丝直径mm	Screw Diameter	40	40	50	60	70
理论注射容积cm ³	Shot volume	219	219	441	763	1211
实际注射量g(PS)	Shot weight (ps)	200	200	401	695	1102
射胶压力bar	Injection pressure	1993	1993	1905	1944	1808
射胶速度mm/s	Injection speed	230	230	210	165	130
螺丝长度直径比	Screw L/D ratio	22:1	22:1	22:1	22:1	22:1
螺杆行程mm	Screw stroke	176	176	225	270	315
螺杆转速r/min	Screw speed	0-300	0-300	0-300	0-300	0-300
锁模装置 Clamping unit						
锁模力kN	Clamping force	1600	2000	2500	3000	3500
开模行程mm	Mold opening stroke	420	500	560	610	700
导柱内距mm×mm	Space between tie bars	455×455	520×520	580×580	635×635	730×730
容模量(最薄-最厚)mm	Mold thickness	160-460	200-250	220-600	250-650	300-750
模板最大距离mm	Max.daylight	880	1050	1160	1260	1450
油压顶出行程mm	Ejector stroke	140	150	180	180	200
油压顶出kN	Ejector force	42	77	124	137	137
其他 General						
液压系统压力Mpa	Hydraulic system pressure	17.5	17.5	17.5	17.5	17.5
油泵马达kW	Pump motor	35	35	46	55	55
电热量kW	Heating power	14	14	16.5	22	30
温度控制区数	Number of temperature control zone	5	5	5	5	5
油箱容量L	Oil tank capacity	300	500	570	650	800
机械外形尺寸(L×W×H)m×m×m	Machine dimensions	5.1×1.3×2.2	6×1.8×1.9	6.5×2×1.9	6.9×2×2.2	7.5×2.2×2.4
机重Ton	Machine weight	4.5	7.5	10.5	12	15