

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
FAX: 0086 769 8584 5562
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：浙江省余姚市凤山街道舜汇东路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

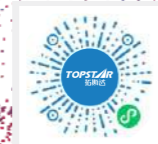
地址：北江市黎利坊雄王路3号TUTACENTER 一楼
手机：186 0209 6307 / 0084-346 860 156

Vietnam Service Office

Address: 1st Floor, TUTACENTER, No. 3, Xiongwang Road, Lieliang, Bao Quang
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Http://www.topstarltd.com

TSDSC2022-D

TMII 系列注塑机

TMII Series Injection Molding Machine

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

股票代码 300607
Stock Code 300607



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01

公司介绍
About Us

公司简介、企业文化、资质评定、发展历程
Company profile、history、qualification、corporate culture



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2021年12月，公司已在全国设有40余家办事处，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 December 2021, the company has set up more than 40 offices across the country, reaching more than 200,000 customers and serving more than 15,000 customers.

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2021年12月，拓斯达拥有授权专利550项，其中发明专利41项；各类软件著作权71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。

- 
15000+
 服务企业客户
- 
自主研发
 能力强
- 
社会
 认可度高
- 
坚持
 “让工业制造更美好”

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 December 2021, Topstar has 550 authorized patents, including 41 invention patents; 71 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

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

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。

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

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550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....

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, 550 technology patents for products, Guangdong province enterprise technology center, South China University of technology production and research cooperation base, School-enterprise cooperation practice base....



Development History

发展历程



02

TMIII系列产品介绍 Introduction of TMIII series products

产品介绍、应用行业、产品配件、
产品特点、产品参数、产品规格、产品安装尺寸、标准系列配置表

Product Introduction、Application industries、Product accessories、
Product Features、Product Parameters、Product Specification、installation dimensions、
Standard series configuration table

TMII Series Injection Molding Machine

TMII 系列注塑机



Product Introduction

产品介绍

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致密的塑料制品的能力。
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



Application industries

应用行业

电子类

electronics



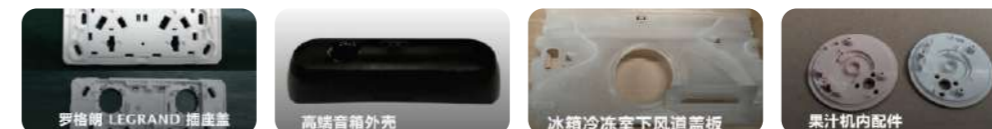
光电类

Optoelectronics



3C家电

3C home appliances



化妆品

cosmetics



汽配行业

auto parts



医疗类

Medical products



容器类

containers



Product Accessories

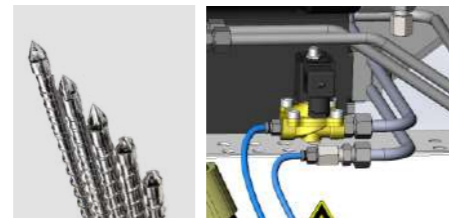
产品配件

TMII通用型精密伺服注塑机 90T-470T

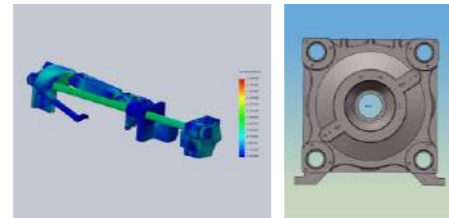
TMII general-purpose precision servo-driven injection molding machine 90T-470T



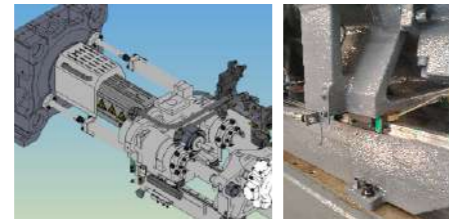
标配KEBA电脑、菲仕电机、台达驱动，搭配自研控制程序，生产控制更精准。
Standard KEBA controller, PHASE motor, DELTA drive, with self-developed control program, more precise production control.



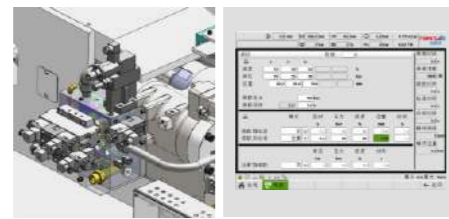
标配电镀螺杆、下料口温度控制，生产效率更高，适用胶料范围更广。
Standard configuration of plating screw and temperature control of the offload, higher production efficiency, and wider application range of rubber materials.



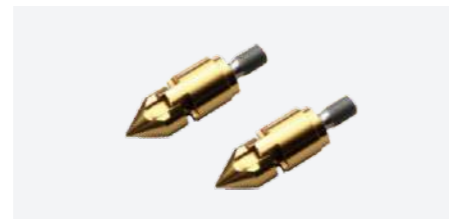
优化锁模设计，强度更高更稳定。
Optimized clamping design, higher strength and more stable.



采用斜排双射移油缸及线性导轨，射胶更加精准稳定。
Diagonal double carriage cylinders and linear guide, more accurate and stable injection.



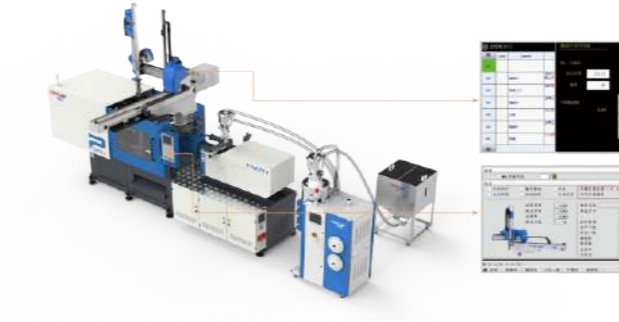
预塑采用比例背压控制，操作简便，可实现多段背压设置，精度更高，提高塑化品质。
Pre-plasticizing adopts proportional back pressure control, easy to operate. Multi-stage back pressure setting can be realized, with higher precision and improved plasticization quality.



精密的PVD合金三小件，适应更广泛的塑化要求。
Precision PVD alloy screw head set, adapt to a wider range of plasticizing requirements.

Product Features

产品特点



拓斯达注塑机和辅机系统高度集成，操作便捷高效。
TOPSTAR injection molding machine and auxiliary system are highly integrated, convenient and efficient operation.

开模位置自动补偿功能，配合机械手精准抓取；
Automatic compensation function of mold opening position, cooperate with manipulator to grasp accurately;



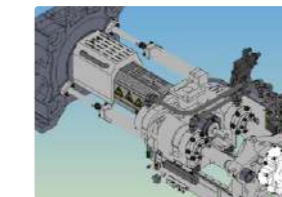
全新斜排机铰布局，可实现超长行程开模，开模位置精度 $< \pm 1\text{mm}$ ，模板运动又快又稳；
The new inclined row machine toggle layout can realize super long stroke mold opening, the mold opening position accuracy is less than $\pm 1\text{mm}$, and the mold movement is fast and stable;



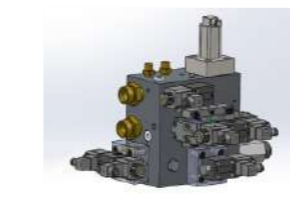
全新的调模机构，一键即可实现自动精准调模；
New mold adjustment mechanism, with one-key function available to realize automatic and accurate mold adjustment;



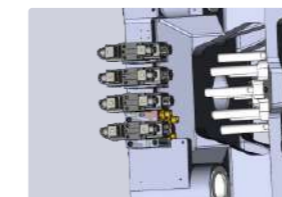
顶针推力加大20%，有利于连接件、插件类产品脱模，适用性更广；
The thrust of thimble is increased by 20%, which is conducive to demoulding of connector and plug-in products, and has wider applicability;



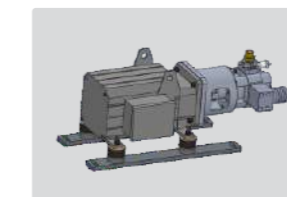
双射移搭配线性导轨，射台运动阻力小，动作灵敏，射胶精准稳定；
Double linear guide rails for carriage movement, small motion resistance of shooting platform, sensitive action, accurate and stable injection;



油路系统全面升级，安全，稳定，功能全，差动锁模运行速度快；
Oil circuit system fully upgraded, safe, stable, full-featured, with fast operation cycle of differential clamping;



抽芯油阀模块化设计，自由搭配抽芯组数；
Modular core pulling oil valve design, free to match the number or core pullings;



伺服动力提升20%，射速提升20%，熔胶转速提升10%，综合效率提升15%；
ervo power increased by 20%, injection speed increased by 20%, plasticizing speed increased by 10%, and comprehensive efficiency increased by 15%;



控制系统二次开发，电脑操作界面人性化设计；
Secondary development of control system and humanized design of computer operation interface;

Product Parameters

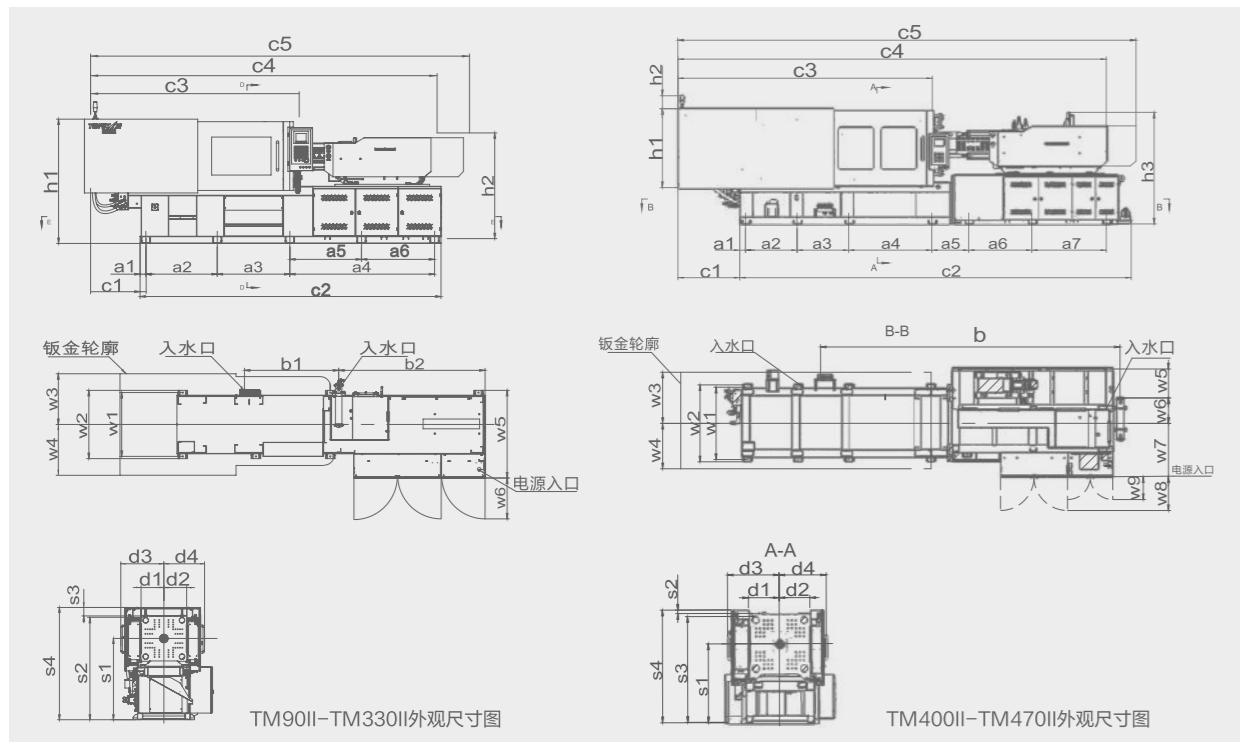
产品参数

注射部份	INJECTION UNIT	UNITS	TM90II			TM130II			TM170II			TM220II			TM260II			TM330II			TM400II			TM470II		
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	388	450	517	468	533	602
★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	117	117	117	106	106	106
★螺杆转速	Screw Speed	rpm		260			260			230			200			200			200			180				180
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	TM90II			TM130II			TM170II			TM220II			TM260II			TM330II			TM400II			TM470II		
锁模力	Clamping Force	t		90			130			170			220			260			330			400				470
★开模行程	Opening Stroke	mm		330			360			430			490			560			660			720				800
模板尺寸(水平×垂直)	Platen size(H×V)	mm		530x530			600x600			680x680			790 x 790			840 x 840			970x970			1045x1045				1160x1160
导柱内距(水平×垂直)	Space Between Tie Bars(H×V)	mm		360x360			410x410			470x470			530 x 530			580 x 580			680x680			730x730				820x820
★容模量(最薄-最厚)	Mould Thickness (Min)	mm		125			150			160			180			190			225			250				300
	Mould Thickness (Max)	mm		400			460			540			560			600			700			750				870
模板最大距离	Max. Daylight	mm		730			820			970			1050			1160			1360			1470				1670
★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	TM90II			TM130II			TM170II			TM220II			TM260II			TM330II			TM400II			TM470II		
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	OTHERS	UNITS	TM90II			TM130II			TM170II			TM220II			TM260II			TM330II			TM400II			TM470II		
机器尺寸(长×宽×高)	Machine Dimensions(LxWxH)	m		4.65x1.23x1.88			4.74x1.23x1.88			5.3x1.32x1.96			6.1x1.54x2.19			6.21x1.54x2.19			7.29x1.86x2.3			7.92x1.92x2.24				8.65x1.92x2.29
油箱容积	Oil Tank Capacity	L		150			150			200			300			400			400			450				600
机器重量	Machine Weight	t		3.3			3.7			4.5			6.7			7.5			11.1			14.8				17.5
模板正面尺寸	Platen dimensions																									
模板侧面尺寸	Platen dimensions																									

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Product Specification

产品规格



外观尺寸

	TM90II	TM130II	TM170II	TM220II	TM260II	TM330II
a1	80	80	80	65	65	110
a2	836	836	997	1240	1240	1470
a3	894	894	1013	1180	1180	1250
a4	1935	1935	2020	—	—	—
a5	—	—	—	1160	1160	1493
a6	—	—	—	1135	1135	1342
b1	1289	1284	1371	1565	1565	2881
b2	1835	1825	1924	2180	2180	1667
c1	714	714	775	885	885	1027
c2	3820	3820	4200	4850	4850	5760
c3	2583	2581	2914	3436	3436	3868
c4	4385	4478	5018	5764	5866	6839
c5	4645	4738	5298	6104	6206	7289
d1	295	307	347	420	430	980
d2	295	307	347	420	430	495
d3	612	612	651.5	783	783	866
d4	577	577	616.5	708	708	802
h1	1660	1660	1735	1962	1962	2071
h2	1425	1425	1475	1580	1596	1711
w1	790	790	870	1058	1058	1210
w2	850	850	930	1118	1118	1290
w3	582	582	590	753	753	831
w4	547	547	555	679	679	788
w5	1045	1045	1125	1313	1313	1640
w6	592	590	600	590	590	631
s1	1190	1190	1230	1335	1335	1390
s2	1430	1465	1545	1692	1722	1842
s3	133	133	128	160	160	148
s4	1625	1625	1572	1992	1992	2037

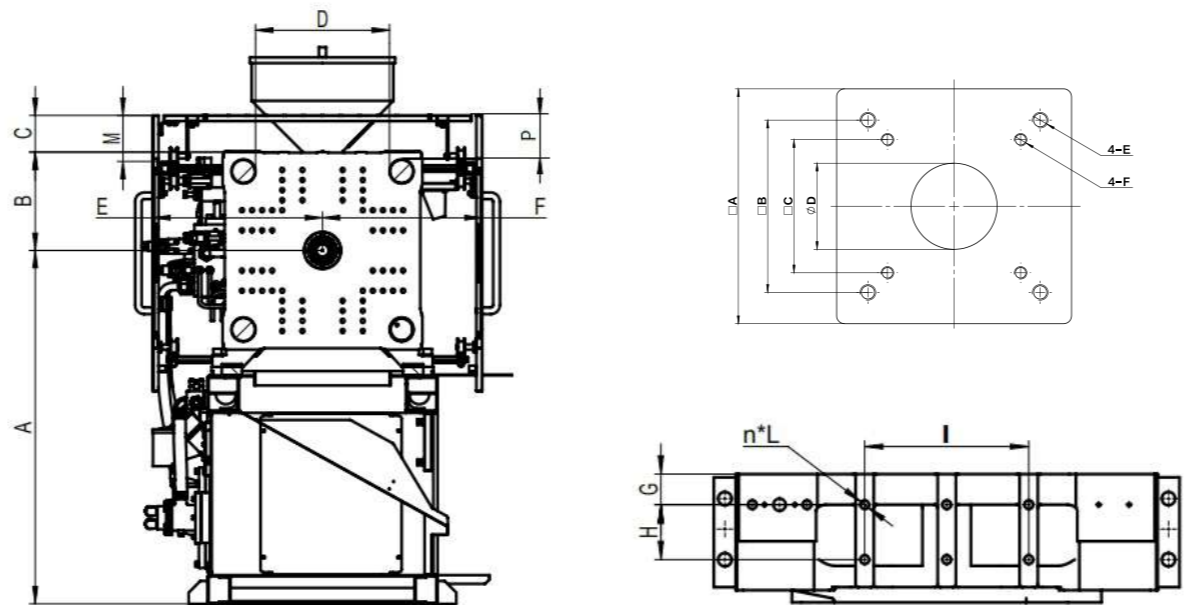
外观尺寸

	TM400II	TM470II
a1	100	105
a2	900	980
a3	900	980
a4	1450	1550
a5	645	730
a6	1100	1100
a7	1300	1300
b	5305	5547
c1	1080	1169
c2	6820	7180
c3	4442	4877
c4	7465	8197
c5	7915	8647
d1	540	600
d2	545	600
d3	911	980
d4	811	980
h1	2012	2067
h2	224	224
h3	1948	1972
w1	1284	1410
w2	1364	1490
w3	896	966
w4	797	867
w5	456	447
w6	509	518
w7	950	950
w8	631	631
w9	435	435
s1	1380	1380
s2	59	54
s3	1867	1922
s4	1979	2034

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Installation dimensions

产品安装尺寸



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	TM90II	TM130II	TM170II	TM220II	TM260II	TM330II	TM400II	TM470II
A	1190	1190	1230	1335	1335	1390	1380	1380
B	302	302	342	427	427	497	537	597
C	133	133	128	160	160	150	62	57
D	360	410	470	530	580	680	730	820
E	550	550	590	722	722	804	849	919
F	515	515	555	647	647	751	749	819
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	197	197	222	117	117
N	6	6	6	6	6	6	9	9
P	198	160	155	232	202	197	114	114

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

机型	TM90II	TM130II	TM170II	TM220II	TM260II	TM330II	TM400II	TM470II
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	TM90II	TM130II	TM170II	TM220II	TM260II	TM330II	TM400II	TM470II
特殊模具安装孔	○	○	○	○	○	○	○	○
加大容模量50mm	○	○	○	○	○	○	○	○
加大容模量150mm	○	○	○	○	○	○	○	○
★机铰用铜套	●	●	●	●	●	●	●	●
★拉杆导套用含油铜套	●	●	●	●	●	●	●	●
液压马达齿轮调模	○	●	●	●	●	●	●	●
吊模架	○	○	○	○	○	○	○	○
油脂润滑(配自润滑轴承)	○	○	○	○	○	○	○	○
加大顶出力	○	○	○	○	○	○	○	○
★加装模具强制复位装置	●	●	●	●	●	●	●	●
加装模具隔热板	○	○	○	○	○	○	○	○
弓形码模夹	○	●	●	●	●	●	●	●
加装机械安全锁	○	○	○	○	○	○	○	○
锁模导轨加装钢带	●	●	●	●	●	●	●	○
加大头板中心孔	○	○	○	○	○	○	●	●
机械手安装座(带接口)	○	○	○	○	○	○	○	○
磁力模板	○	○	○	○	○	○	○	○
模板增加T型槽+码模孔	○	○	○	○	○	●	●	●
模板增加T型槽	○	○	○	○	○	○	○	○
成品滑道	●	●	●	●	●	○	○	○

射胶部分 Glue injection	TM90II	TM130II	TM170II	TM220II	TM260II	TM330II	TM400II	TM470II
加长射嘴50mm	○	○	○	○	○	○	○	○
加长射嘴100mm	○	○	○	○	○	○	○	○
加长射嘴150mm	○	○	○	○	○	○	○	○
加长射嘴200mm	○	○	○	○	○	○	○	○
加长射嘴300mm	○	○	○	○	○	○	○	○
过滤网射嘴组件	○	○	○	○	○	○	○	○
弹簧自锁射嘴(国产)	○	○	○	○	○	○	○	○
混色混炼螺杆(φB)	○	○	○	○	○	○	○	○
混色混炼螺杆(φA)	○	○	○	○	○	○	○	○
混色混炼螺杆(φC)	○	○	○	○	○	○	○	○
PMMA塑化组件(φB)	○	○	○	○	○	○	○	○
PMMA塑化组件(φA)	○	○	○	○	○	○	○	○
PC塑化组件(φA)	○	○	○	○	○	○	○	○
PC塑化组件(φXA)	○	○	○	○	○	○	○	○
软PVC塑化组件(φA)	○	○	○	○	○	○	○	○
软PVC塑化组件(φB)	○	○	○	○	○	○	○	○
软PVC塑化组件(φC)	○	○	○	○	○	○	○	○
加大一级熔胶马达	○	○	○	○	○	○	○	○
减小一级射胶机构	○	○	○	○	○	○	○	○
减小二级射胶机构	○	○	○	○	○	○	○	○
加大注射行程50mm	○	○	○	○	○	○	○	○
射台加装手动润滑泵	○	○	○	○	○	○	○	○
★下料口温度检测	●	●	●	●	●	●	●	●
★射移、射胶用线轨	●	●	●	●	●	●	●	●
★双射移油缸	●	●	●	●	●	●	●	●
全封闭保温罩	●	●	●	●	●	●	●	●
加装风冷装置	○	○	○	○	○	○	○	○
射嘴防护罩	●	●	●	●	●	●	●	●
射台表面加花纹板	●	●	●	●	●	●	●	●
加装料斗	○	○	○	○	○	○	○	○
带轴承料斗滑动装置	○	○	○	○	○	○	○	○
加装磁力架座(配磁力架)	○	○	○	○	○	○	○	○
加大料斗	○	○	○	○	○	○	○	○
埋入式探针射嘴	○	○	○	○	○	○	○	○
★冷水环增加电磁阀	●	●	●	●	●	●	●	●

钣金部分 Metal Plate		TM90II	TM130II	TM170II	TM220II	TM260II	TM330II	TM400II	TM470II
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		TM90II	TM130II	TM170II	TM220II	TM260II	TM330II	TM400II	TM470II
标配一组液压抽芯	Standard 1 set hydraulic core pulling	●	●	●	●	●	●		
标配二组液压抽芯	Standard 2 sets hydraulic core pulling							●	●
加装一组液压抽芯	Add a set of hydraulic core pulling system	○	○	○	○	○	○	○	○
加装二组液压抽芯	Add two sets of hydraulic core pulling system	○	○	○	○	○	○	○	○
加装三组液压抽芯	Add three sets of hydraulic core pulling system	○	○	○	○	○	○	○	○
一组液压抽芯配快速接头	One set of hydraulic core pulling system with quick coupling	○	○	○	○	○	○	○	○
二组液压抽芯配快速接头	Two sets of hydraulic core pulling system with quick coupling	○	○	○	○	○	○	○	○
三组液压抽芯配快速接头	Three sets of hydraulic core pulling system with quick coupling	○	○	○	○	○	○	○	○
一组气动抽芯	One set of pneumatic core pulling system	○	○	○	○	○	○	○	○
一组吹风	One set of aeration system	○	○	○	○	○	○	○	○
二组吹风	Two sets of aeration system	○	○	○	○	○	○	○	○
三组吹风	Three sets 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)	○	○	○	○	○	○	○	○
抽芯增加叠加单向阀	Core pulling system with stacked check valve	○	○	○	○	○	○	○	○
顶针增加叠加单向阀	Thimble with stacked check valve	○	○	○	○	○	○	○	○
调模刹车液压马达	Hydraulic motor for mold adjustment brake	○	○	○	○	○	○	○	○
开模同步顶针	Synchronous thimble for mould opening	○	○	○	○	○	○	○	○
液压同步熔胶回路	Hydraulic synchronous glue melting circuit	○	○	○	○	○	○	○	○
液压同步抽芯回路	Hydraulic synchronous core pulling circuit	○	○	○	○	○	○	○	○
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	●	●	●	●	●	●	●	●
加大一级油泵电机	Upgrade the oil pump motor by a grade	○	○	○	○	○	○	○	○
加大两级油泵电机组	Upgrade the oil pump motor by two grades	○	○	○	○	○	○	○	○
伺服注射系统	Servo injection system	○	○	○	○	○	○	○	○
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	○	○	○	○	○	○	○	○
高速伺服开合模阀	High speed servo opening and closing valve	○	○	○	○	○	○	○	○
加装高压软管防爆链	Installation of high pressure hose explosion-proof chain	●	●	●	●	●	●	●	●

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电气部分 Electrical Part		TM90II	TM130II	TM170II	TM220II	TM260II	TM330II	TM400II	TM470II
电动旋转脱模 (不含马达)	Electric rotary demoulding (excluding motor)	○	○	○	○	○	○	○	○
电压改为220V/3PH/60HZ	Voltage changed to 220V/3PH/60HZ	○	○	○	○	○	○	○	○
电压改为440V/3PH/50HZ	Voltage changed to 440V/3PH/50HZ	○	○	○	○	○	○	○	○
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	●	●	●	●	●	●	●	●
加装一组三相32A插座	Installation of a set of three-phase 32A socket	○	○	○	○	○	○	○	○
加装二组三相32A插座	Installation of two sets of three-phase 32A socket	○	○	○	○	○	○	○	○
加装三组三相32A插座	Installation of three sets of three-phase 32A socket	○	○	○	○	○	○	○	○
加装四组三相32A插座	Installation of four sets of three-phase 32A socket	○	○	○	○	○	○	○	○
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	●	●	●	●	●	●	●	●
配8寸显示屏	Equip 8" display screen	●	●	●	●	●	●	●	●
配10寸显示屏	Equip 10" display screen	○	○	○	○	○	○	○	○
油位警报	Oil level alarm	○	○	○	○	○	○	○	○
油温过高报警	Super high oil temperature alarm	●	●	●	●	●	●	●	●
加装电表	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	○	○	○	○	○	○	○	○
加装电脑操作面板资料锁	Data lock installation for computer operation panel	○	○	○	○	○	○	○	○
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		TM90II	TM130II	TM170II	TM220II	TM260II	TM330II	TM400II	TM470II
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)	○	○	○	○	○	○	○	○
更改射台颜色 (A/A2以外颜色)	Change the color of the injection platform (color other than A/A2)	○	○	○	○	○	○	○	○
更改锁模颜色 (A/A2以外颜色)	Change mould clamping color (color other than A/A2)	○	○	○	○	○	○	○	○
更改机架颜色 (A/A2以外颜色)	Change rack color (color other than A/A2)	○	○	○	○	○	○	○	○

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

03

Chapter of Service
客户服务

售后服务、全球服务网点
After-Sale Service、Global Service Net

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



sincerely appreciate

衷心感谢

超过15000家客户见证并长期支持

Over 15000 customer have witnessed TOPSTAR growth and long supports

 宁德时代 宁德时代	 亿纬锂能 亿纬锂能	 新能德 新能德	 欣旺达 欣旺达	 伯恩光学 伯恩光学	 立讯精密 立讯精密
 珠海冠宇 珠海冠宇	 捷普绿点 捷普绿点	 蜂巢能源 蜂巢能源	 长城汽车 长城汽车	 比亚迪 比亚迪	 富士康 富士康
 裕同科技 裕同科技	 多氟多 多氟多	 晶澳科技 晶澳科技	 华为 华为	 宇瞳光学 宇瞳光学	 旺盈包装 旺盈包装
 正崧集团 正崧集团	 卫龙 卫龙	 长盈精密 长盈精密	 三一重工 三一重工	 精研科技 精研科技	 新宝电器 新宝电器