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極致雙色·旋轉精控

Splendid dual color Accurate rotation

R系列射出成型機



YEAR-CHANCE R-SERIES
INJECTION MOLDING MACHINE

R160. R220. R320. R420. R620. R820. R1020



義展機械股份有限公司
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Elite perspective

鎖模機構 Clamping mechanism

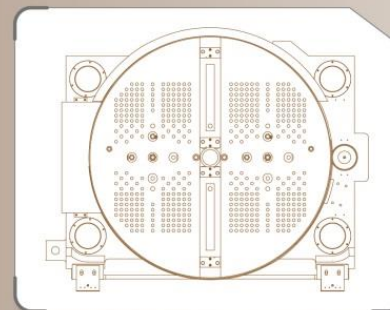
轉盤對R系列雙色機是標準配備，特殊的轉盤設計允許模具使用熱煤油、冷凍水、液壓油、控制線路。
Rotation plate is a standard accessory for R series dual color model. Heat transfer oil, chilly water, hydraulic oil, and control circuit are all available for mold utility based on special design of rotation plate.

R系列雙色機轉盤的動力設計，是運用電機伺服馬達做為驅動，利用伺服馬達的快速轉動精準定位，再搭配定位機構，能使轉盤快速旋轉到定位，有效提高雙色產品不同塑料材質的結合性。

Rotation plate of R series dual color model is driven by electric servo motor with rapid and precise positioning function, and accompanied with positioning mechanism. It makes the rotation plate could be positioned rapidly to improve the combination property between 2 different resins.



Innovative deduction



雙色機生產的產品，是由兩種不同材質原料或兩種同材質不同色原料分兩次成型，重點在第二次成型塑料要與第一次成型塑料接合時，接合面的貼合性好壞是產品優異的重要指標，因此雙色機轉盤的動作及速度快慢，直接關係到兩個成型面貼合性好壞的重要因素。

義展雙色機轉盤的動力來源為電機伺服馬達，其轉速及定位的精準性遠優於其它使用油壓馬達驅動轉盤的機種。此外在定位結構設計也不同於他牌雙色機，他牌雙色機轉盤的作動施力點設計在轉盤中心位置，利用排齒上下運動帶動中心齒，此種設計方式力距大排齒承受負載大容易造成齒形的崩裂。義展雙色機轉盤的作動施力點設計在轉盤的外圍部位，施力臂大齒輪承受負載小不易損壞。

The product of dual color machine is made by 2 molding stages with 2 different resins or 2 different color of same resin. The combination property between 2resins is an important target, and the main factor will be directly affected by the movement and speed of rotation plate.

Year Chance model, the rotation plate is driven by electric servo motor, its accuracy of rotation speed and positioning property is much better than other driven by hydraulic motor. In addition, the positioning mechanism is also different from other brand which its central gear is pushed forward by a straight gear with up-and-down movement, the gear tooth is easily damaged due to higher torque force as the pushing point at central area. Year Chance model, the pushing point is at the border area of rotation plate. The bearing load of gear will be smaller as the torque distance is longer, so the gear can work much longer then.



R-Series 射出機性能表 Injection Molding Machine

型號 Model (傳統馬達 Standard)			R160				R220				R320				R420				R620				R820				R1020																
射出系統 Injection system	螺旋桿直徑	Screw Diameter	mm	22	25	28	32	25	28	32	35	30	32	35	38	35	38	42	45	45	50	55	60	55	60	65	70	65	70	75	80												
	射出容積	Injection Volume	cm ³	60	78.5	98	128	88	110	144	173	148	168	201	238	230	272	332	381	413	510	617	734	712	847	994	1154	1094	1269	1457	1657												
	射出重量(PS)	Shot Weight (PS)	g	56	72	90	118	81.6	102	133	160	137	155	186	219	213	251	307	352	381	471	570	678	658	783	919	1066	1011	1172	1346	1531												
			oz	1.9	2.5	3.2	4.1	2.8	3.6	4.7	5.6	4.8	5.5	6.5	7.7	7.5	8.8	10.8	12.4	13.4	16.6	20.1	23.9	23.2	27.6	32.4	37.6	35.6	41.3	47.4	54												
	可塑化能力	Plasticizing Capacity	kg/hr	12	15	19	25	20	25	33	45	35	40	48	57	49	58	72	81	83	102	118	141	127	151	168	195	160	191	212	247												
	螺桿轉數	Screw Rotation	R.P.M	340				340				215				221				240				193				195				197				238				185			
	射出壓力	Injection Pressure	kgf/cm ²	3556	2754	2493	1909	3814	3041	2592	2164	3173	2789	2817	2389	3205	2719	2621	2283	2946	2386	2247	1888	2585	2172	2082	1793	2345	2022	1958	1721												
	射出效率	Injection Rate	cm ³ /s	54	69	77	100	64	81	95	114	96	109	108	128	122	138	144	165	185	229	243	289	256	305	377	437	403	467	483	549												
射出速度	Injection Speed	mm/s	142		125		132		118		136		113		122		104		116		102		108		113		121		109														
型號 Model (伺服節能 Energy-saving)			R160S				R220S				R320S				R420S				R620S				R820S				R1020S																
射出系統 Injection system	螺旋桿直徑	Screw Diameter	mm	22	25	28	32	25	28	32	35	30	32	35	38	35	38	42	45	45	50	55	60	55	60	65	70	65	70	75	80												
	射出容積	Injection Volume	cm ³	60	78.5	98	128	88	110	144	173	148	168	201	238	230	272	332	381	413	510	617	734	712	847	994	1154	1094	1269	1457	1657												
	射出重量(PS)	Shot Weight (PS)	g	56	72	90	118	81.6	102	133	160	137	155	186	219	213	251	307	352	381	471	570	678	658	783	919	1066	1011	1172	1346	1531												
			oz	1.9	2.5	3.2	4.1	2.8	3.6	4.7	5.6	4.8	5.5	6.5	7.7	7.5	8.8	10.8	12.4	13.4	16.6	20.1	23.9	23.2	27.6	32.4	37.6	35.6	41.3	47.4	54												
	可塑化能力	Plasticizing Capacity	kg/hr	14	18	23	30	18	23	30	41	41	47	57	68	49	58	72	81	77	95	110	131	127	151	154	179	127	151	154	179												
	螺桿轉數	Screw Rotation	R.P.M	400				312				260				216				225				180				195				180				188				146			
	射出壓力	Injection Pressure	kgf/cm ²	3556	2754	2493	1909	3814	3041	2592	2164	3173	2789	2817	2389	3205	2719	2621	2283	2946	2386	2247	1888	2585	2172	2082	1793	2345	2022	1958	1721												
	射出效率	Injection Rate	cm ³ /s	63	82	90	118	59	74	87	104	116	132	130	154	114	135	140	161	192	237	252	300	284	339	381	442	398	462	477	543												
射出速度	Injection Speed	mm/s	167		147		121		108		164		135		119		101		120		106		120		114		120		108														
開模系統 Clamping system	鎖模力	Clamping Force	Tonf	160				220				320				420				620				820				1020															
	開模行程	Opening Stroke	mm	400				450				475				600				700				800				950															
	模厚	Mold Height	mm	120~550				150~600				200~650				250~760				300~850				350~950				400~1100															
	模板	Platen Dimension	mm	875 x 825				1000 x 725				1250 x 800				1380 x 970				1670 x 1120				1900 x 1270				2120 x 1410															
	支柱內距	Distance between tie-bars	mm	650 x 400				730 x 450				950 x 500				1050 x 630				1260 x 710				1430 x 800				1610 x 900															
	料管中心距	Distance between barrel center	mm	350				400				500				550				650				700				800															
	托模力	Ejection Force	Tonf	2.7				3.3				4.8				4.8				7.5				7.5				13.3															
	托模行程	Ejection Stroke	mm	110				130				150				180				250				300				330															
動力系統及附件 Power system and others	電機馬達	Motor	HP/KW	30HP		S 11KWx2		40HP		S 11KWx2		50HP		S 15KWx2		60HP		S 15KWx2		80HP		S 22KWx2		50+60HP		S 30+33KW		75+75HP		S 37+37KW													
	電熱段數	Heating Zone	set	4 x 2				4 x 2				5 x 2				5 x 2				6 x 2				6 x 2				7 x 2															
	電熱容量	Heating Capacity	KW	5.7 x 2				6.45 x 2				8.5 x 2				9.8 x 2				15 x 2				17 x 2				24 x 2															
	系統壓力	Max. System Pressure	kg/cm ²	170				170				170				170				170				170				170															
	油箱容量	Oil Tank Capacity	L	390				420				470				530				650				810				1150															
	機械尺寸	Machine Dimension	M	5.7 x 1.4 x 1.8				5.7 x 1.82 x 1.8				7 x 2.1 x 2.2				8.3 x 2.24 x 2.2				9 x 2.8 x 2.2				9.6 x 3.1 x 2.4				11.9 x 3.5 x 2.7															
	機械重量	Machine Weight	Ton	8				11.2				16.4				20				30				40				55															

1. 射出重量以射出容積為準，以PS塑料比重1.05，假設效率0.88的乘積。
Shot weight is based on shot volume multiplied by specific gravity 1.05 of PS with 88% efficiency.
2. OZ為重量單位，1OZ等於28.349g。
OZ is weight units, and 1 OZ is equal to 28.349 grams.
3. 機械顏色有象牙白及靛藍兩色可供選擇。
Ivory and indigo are available for machine color.

4. 規格外料管亦可訂做，將跟據需求配合機械性能提出建議。
Special barrel is also available along with a proposal based on request and machine function.
5. 基於研發需求，本公司保有修改上述規格之權利若未減低性能，得不另行通知。
Design and specification are subject to change without prior notice.

