



狼腾广告设计承印/13586836982

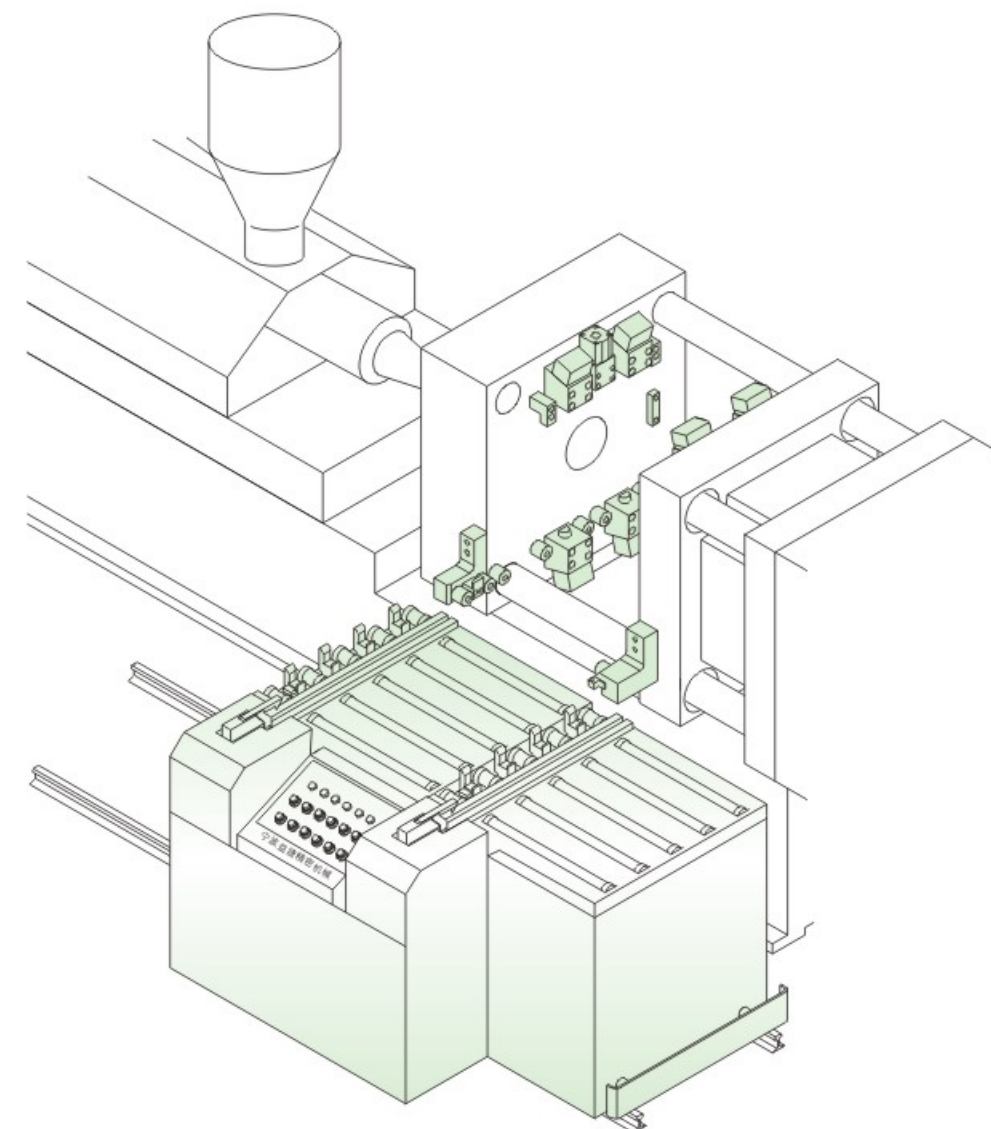


YIJIE
益捷精密

全自动移模台车
Full automatic mould transfer trolley

压铸机快速换模
Die casting machine rapid die change

注塑机快速换模
Rapid mould changing of injection molding machine



技术
Technology

品质
Quality

服务
Service

宁波益捷精密机械有限公司
NINGBO YI JIE PRECISION MACHINERY CO., LTD

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宁波益捷精密机械有限公司
NINGBO YI JIE PRECISION MACHINERY CO., LTD

宁波益捷精密机械有限公司位于宁波市北仑区，是集研发、生产、服务于一体的专业厂商。公司致力于物料自动移送系统的研发制造与应用，并已取得国内多个发明专利与实用新型专利。

主要产品：

- 模具自动仓储系统
- 全自动移模台车
- 快速换模系统

主要应用于冲床、油压机、注塑机、压铸机、合模机等机械设备。

公司主要客户群体：汽车生产厂及OEM厂商、电子厂、家电厂、物流产品等行业；

公司本着“诚信、专业、高效、进取”的经营理念，为客户提供优质的产品和卓越的服务，以保证客户高效生产、节能安全；使工厂达到标准化、现代化、自动化。

公司热忱欢迎各界朋友前来参观考察、指导交流！

Ningbo yi jie precision machinery co., ltd is located in ningbo beilun, is set research and development, production, agents, one of professional manufacturers. The company is committed to the research and manufacture and application of automation system of the mould, and has obtained more than domestic invention patent and the patent for utility model.

Main products:

- Mould automatic warehousing system
- Fully automatic move mould trolley
- Quick die change system

Mainly used in punch press, hydraulic press, injection molding machine, die-casting machine, moulding machines and other mechanical equipment.

The main customer base: automobile manufacturer and OEM manufacturers, electronics factory, power plants, logistics products and other industries;

The company spirit of "integrity, professional, efficient and enterprising" business philosophy, dedicated to provide customers with quality products and excellent service, to ensure the safety in high efficiency production, energy saving; As to achieve the standardization, modernization and automation of the factory.

We sincerely welcome friends from all walks of life to visit and guidance!

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追求企业荣誉

The pursuit of enterprise honor

追求精益求精

The pursuit of excellence

追求创新发展

The pursuit of innovation and development

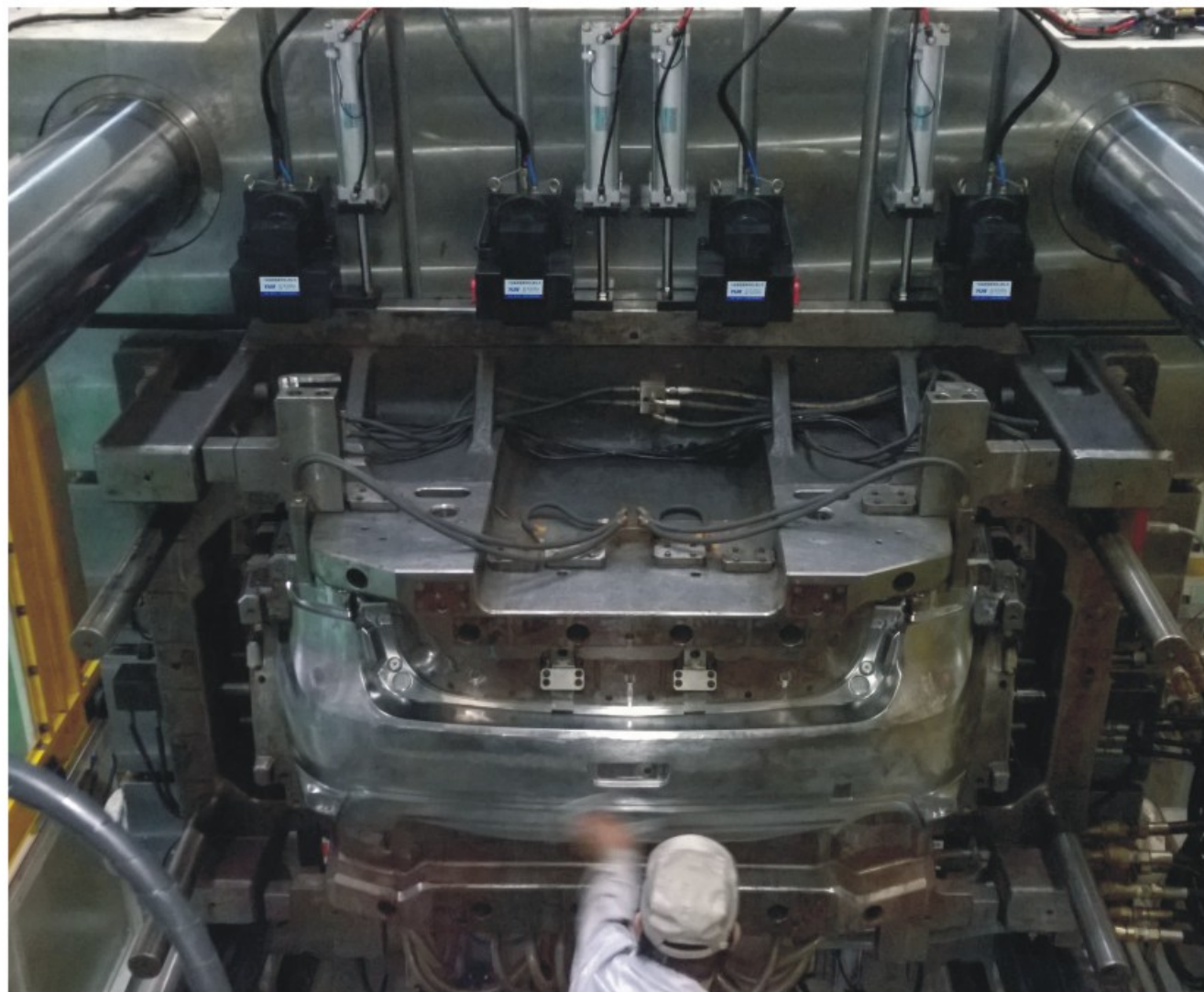
追求永续经营

The pursuit of sustainable development

快速夹模系统 Quick die system

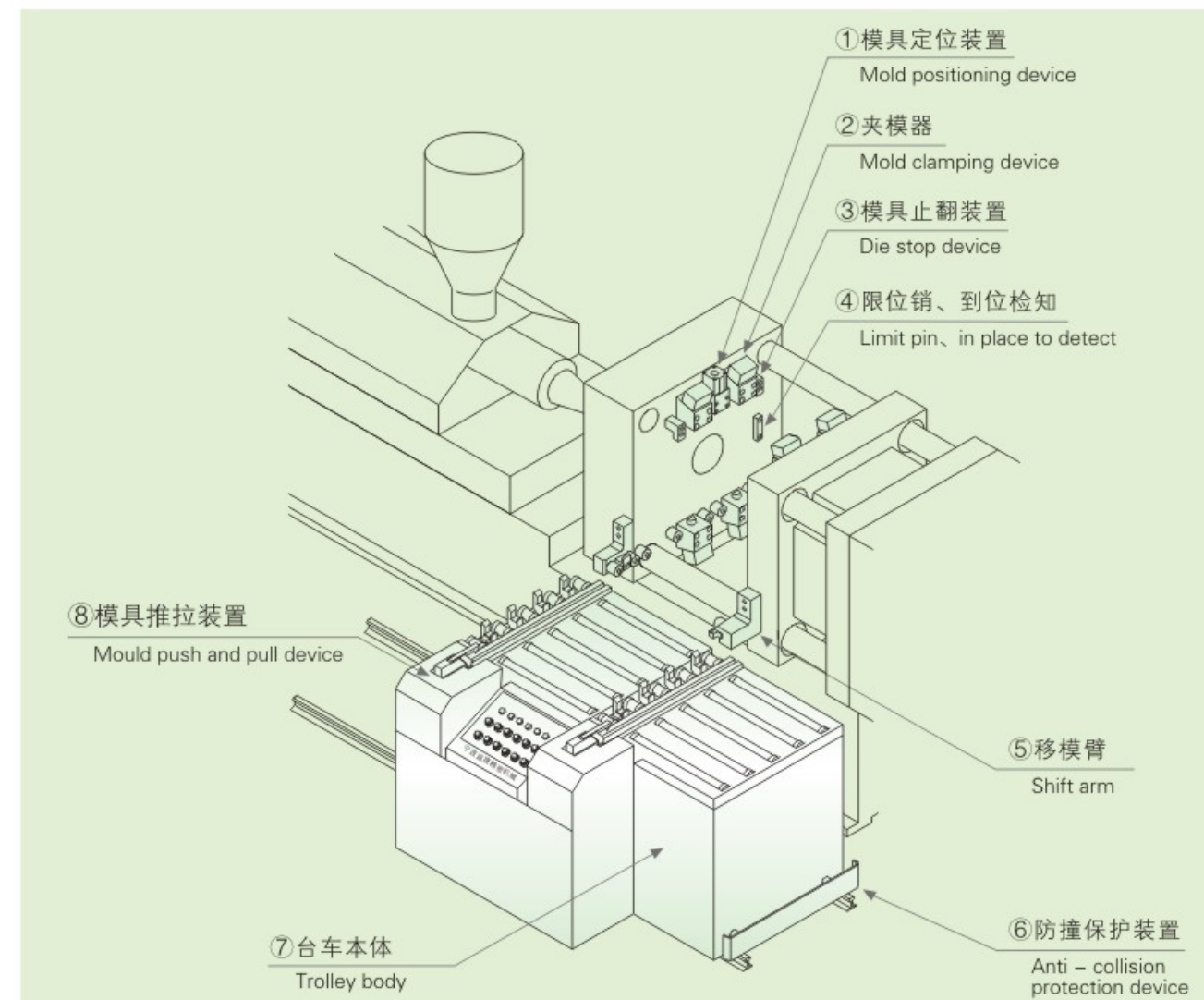
适用于注塑机、压铸机、合模机等机械。本系统的导入大大缩短了换模时间，较传统模具更换方式更安全、更高效，适合多种少量的生产，减少库存，降低人工成本，大幅提升了企业竞争力。

Suitable for injection molding machine, die casting machine, die casting machine. The introduction of the system greatly shorten the time of mold change, more than the traditional mold replacement Safer, more efficient, suitable for a variety of small production, reduce inventory, reduce labor costs, greatly enhance the competitiveness of enterprises.

**自动换模系统 Automatic mold changing system**

为了迎接少量、多样的高频率换模生产时代，争取换模时效、确保操作安全，正是导入自动换模系统的最佳时机。

In order to meet the needs of a small variety of High Frequency die changing production times, and strive for the aging of the mold change, to ensure the safety of operation, is the introduction of rapid tooling system Best time.

**系统特点 Safety function of system**

- 各液压回路具有逆止功能
- 各液压回路具有压力检知功能
- 液压系统具有自动补压功能
- 夹模采用对角方向交叉锁模
- 触控式操作系统与机台连线，具有多项安全互锁功能。
- Each hydraulic circuit has a check function
- Each hydraulic circuit has the function of pressure detection
- Hydraulic system with automatic pressure compensation function
- Diagonal direction cross clamping
- Touch control operating system and machine connection, with a number of security interlock function.

型板内配置说明 Configuration instructions in the plate

- ① 模具定位装置：用于搬入模具时，针对喷嘴中心左右方向的定位。
- ② 夹模器：用于夹紧注塑机内的模具。
- ③ 模具止翻装置：用于防止夹模器释放后移动盘开度过大导致的模具翻倒。
- ④ 限位销、到位检知：用于定位销动作异常时的模具限位，以此防止模具的脱落。
- ⑤ 移模臂：用于注塑机型板内滚轮与模具交换台车之间或者与中转台之间的衔接的滚轴。
- ⑥ 防撞保护装置：接触到行人或物体马上停止的保护装置
- ⑦ 台车本体：移动位置的机台主体
- ⑧ 模具推拉装置：模具从台车上到机台中移动的动力装置
- ① Mold positioning device: for moving into the mold, the center of the nozzle for the left and right direction of positioning.
- ② clamping device: for clamping the mold within the injection molding machine.
- ③ Die stop device: used to prevent the release of the mold after the release of the disk is too large opening caused by the mold overturned.
- ④ Limit pin, in place to detect: for positioning pin movement error when the mold limit, in order to prevent the mold off.
- ⑤ Shift arm: for injection molding machine between the plate guide roller and the mold exchange between the trolley or the convergence between the roller.
- ⑥ Anti-collision protection device: exposure to pedestrians or objects immediately stop the protection device
- ⑦ Trolley body: the movement of the machine body
- ⑧ Mould push and pull device: the mold from the trolley to the machine in the mobile power device

自动移模台车 (中国专利)

Automatic mold transfer trolley(china patent)

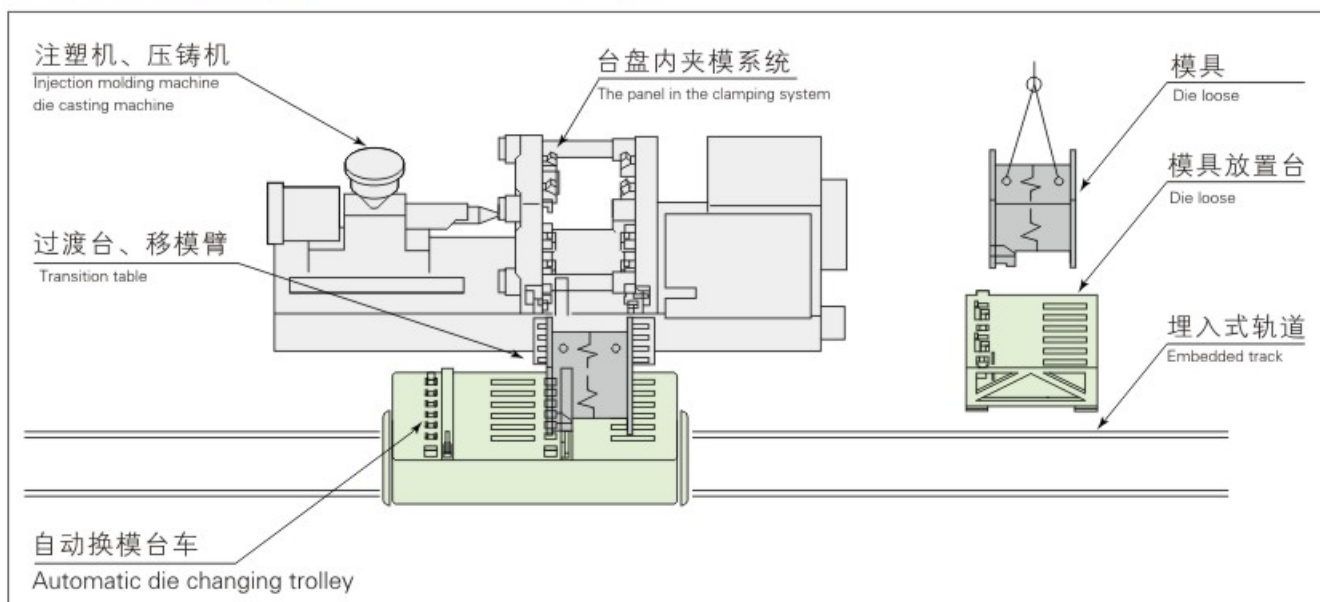
采用自动移模台车的优点
The advantages of using automatic mould transfer trolley

提高生产效率
Improve production efficiency

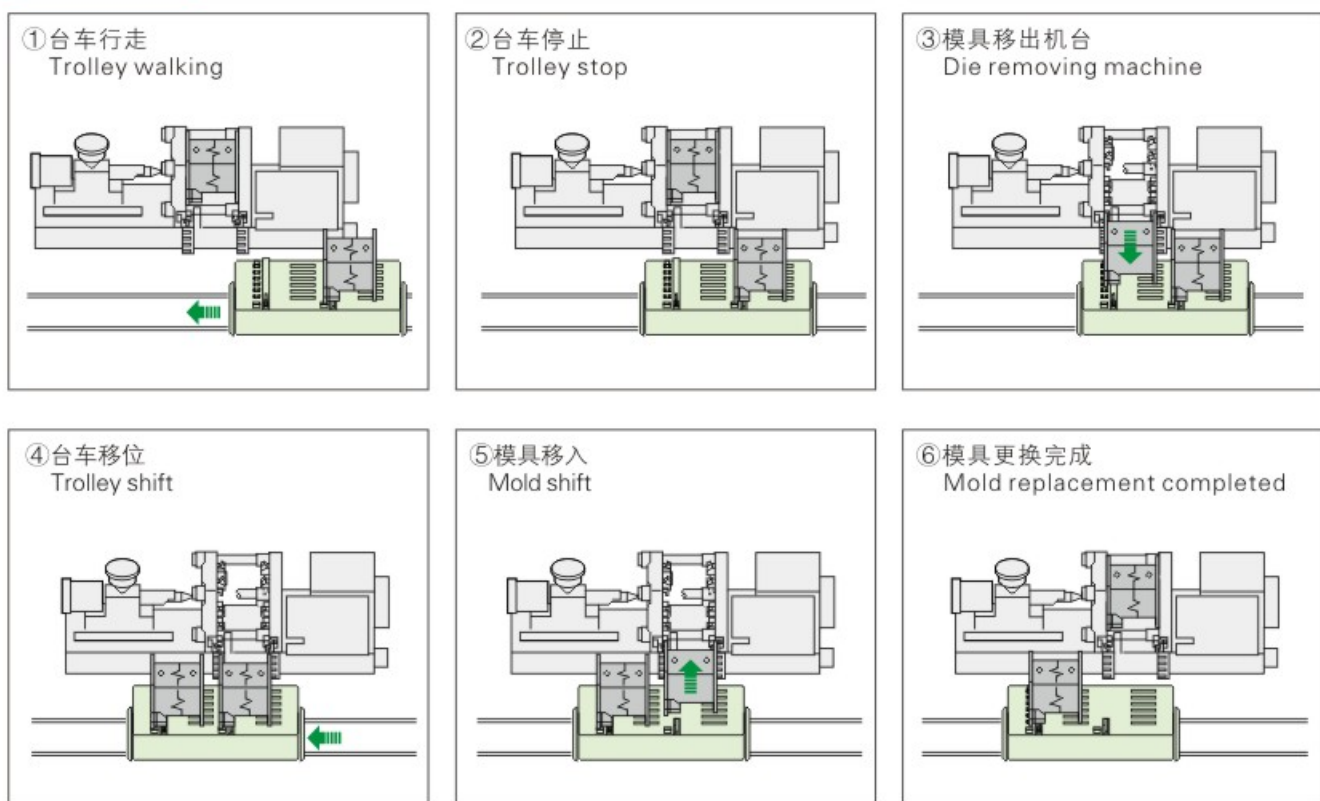
安全作业
Safe operation

多品种小批量生产
Multi variety and small batch production

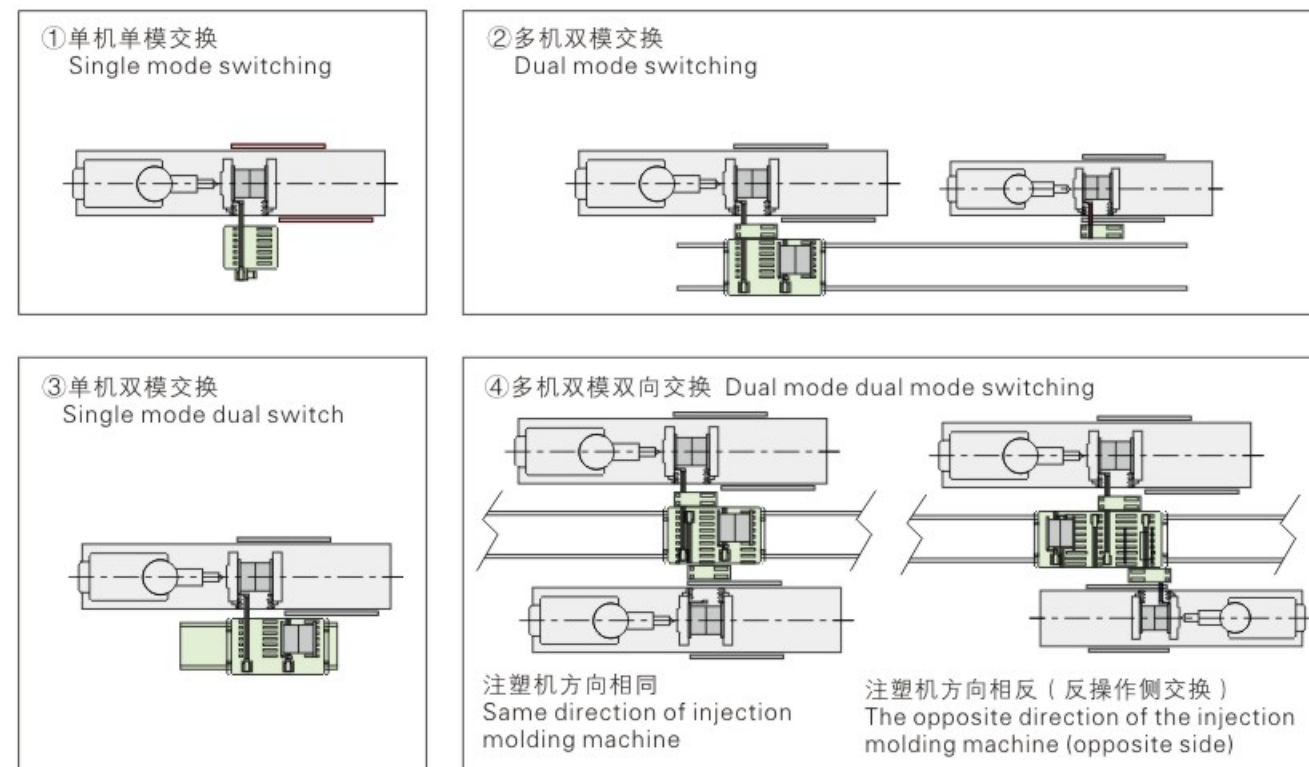
自动换模系统构成 Automatic die changing system



系统示意图 System diagram

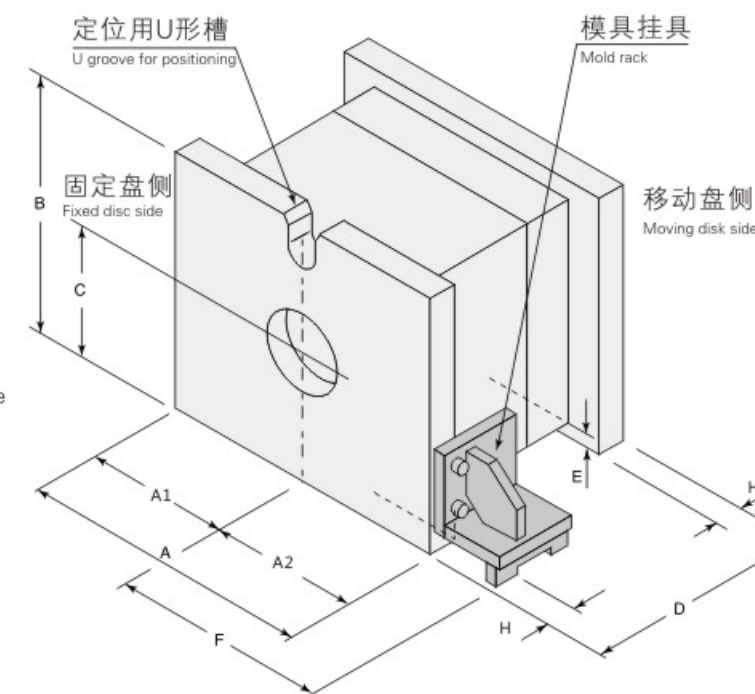


自动换模的几种形式 Several types of automatic die changing



模具要求 Die requirements

- ①模具尺寸的统一
B: 模具高度
C: 模具底部到射嘴中心距离
H: 夹持模板厚度
F: 中心到模具挂具的距离
 - ②固定盘侧模具定位用U形槽的加工
 - ③模具挂具的制作及安装
- ①Uniform mold size
B: die height
C: the base of the die to the center of the nozzle
H: thickness of clamping part
F: the distance to the center of the mold rack
 - ②Machining of U shaped groove for fixing the side of mould
 - ③Mold fabrication and installation rack



气动泵浦组合 Pneumatic pump combination



- ◆ 利用空气压力驱动泵浦产生高油压压力，出口油压达到设定压力值即停止作动不需继续消耗能源，出口压力下降则自动补压，具有保压功能。
- ◆ 回路控制系统具有逆止功能，临时停电或空气压力消失时，油压压力仍可长时间保持。
- ◆ 具有压力检知功能，可和机台连线。
- ◆ 可依据需要搭配不同出力泵浦及不同型式回路系统。

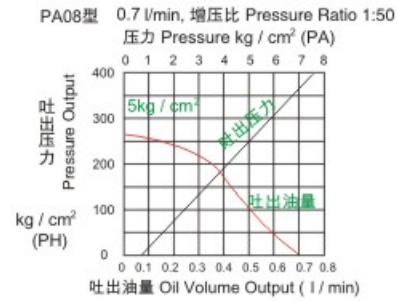
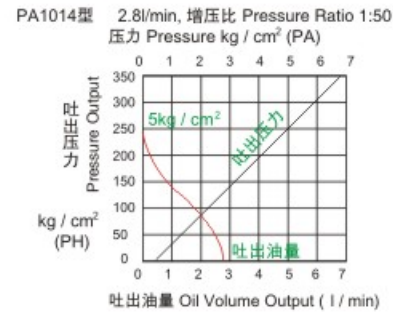
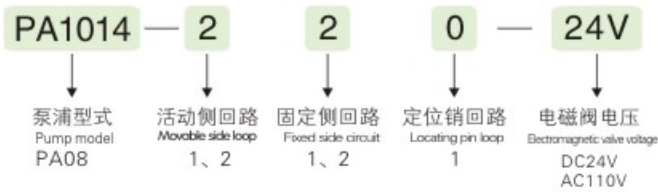
◆ Use the air driven hydraulic pump. Once the outlet hydraulic pressure reaches the setting pressure, it will stop driving which won't waste any energy. Or, it will add the pressure automatically if the outlet pressure is reducing. It consists of the function to keep the pressure continuously.

◆ The circuit control system has the function of check. If there is no pneumatic pressure, the hydraulic pressure will still keep.

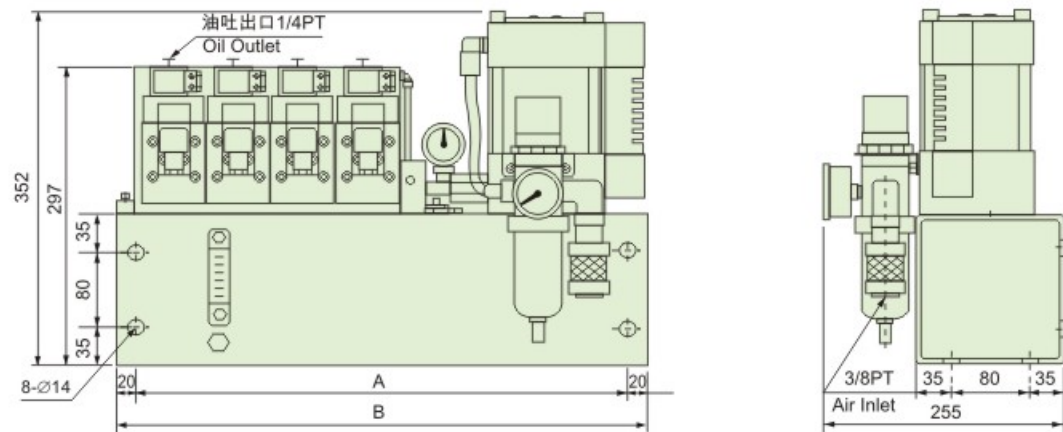
◆ It has the function of inspection. It can be connected with the machine.

◆ It goes with the different pumps and models of circuit control system based on the needs.

型式选定 Model selection

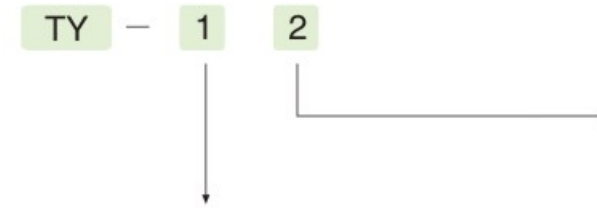


外型尺寸 Outline Dimensions



型号 Model	回路数 Total Circuits	A	B	油箱全容量 Reservoir Capacity	可用容量 Available Lubricant	重量 Weight (kg)	使用油 Lubricant
PA1014-001-24V	1	353	393	6	3.8	30	一般液压作动油 ISO 32-68 Standard hydraulic oil
PA1014-110-24V	2	353	393	6	3.8	34	
PA1014-111-24V	3	423	463	7.5	4.8	42	
PA1014-220-24V	4	493	533	9	5.8	50	

夹具选型 The fixture selection



夹力/Capacity of clamp : 1~50 (tons)

- A : 无：标准式 Standard type
- N : 附近接开关 With sensor type
- C : 气缸移动式 Pneumatic cylinder movable type
- B : 固定式 Fixed type
- S : 导座式 Slide movable type
- V : 耐高温式 Heat-resistant type



规格说明 Instruction of Specification

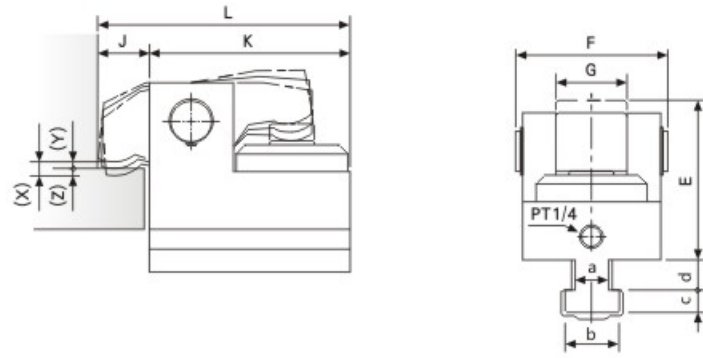
型式 MODEL	TY-2	TY-4	TY-6	TY-10	TY-16	TY-25	TY-50
夹力 Capacity of clamp	2	4	6	10	16	25	50
总行程 (X) Total stroke (X)	8	8	8	8	8	8	10
夹具行程 (Y) Stroke of clamp (Y)	3	3	3	3	3	3	4
预留行程 (Z) Preserved stroke (Z)	5	5	5	5	5	5	6
油缸总容量 Total volume of cylinder	8	13	22	38	60	98	220

Hydraulic Pressure 使用油压压力: 250kg/cm²

选用规范 Selection of System Components

机台型号 Machine tons	夹具 Clamp	夹具数量 No. of clamp	泵浦单元 Pump unit
100 ~ 150	TY-2	8	PA08-220-24V
150 ~ 250	TY-4	8	
280 ~ 350	TY-6	8	
380 ~ 550	TY-10	8	
550 ~ 850	TY-16	8	PA1014-220-24V
	TY-16	12	
850 ~ 1300	TY-25	8	
	TY-25	16	
1300 ~ 1600	TY-25	12	
	TY-25	16	
1800 ~ 2500	TY-25	16	
2600 ~ 3200	TY-25	20	
	TY-50	12	
3300 ~ 4000	TY-50	16	

TY-A



规格说明 Instruction of Specification

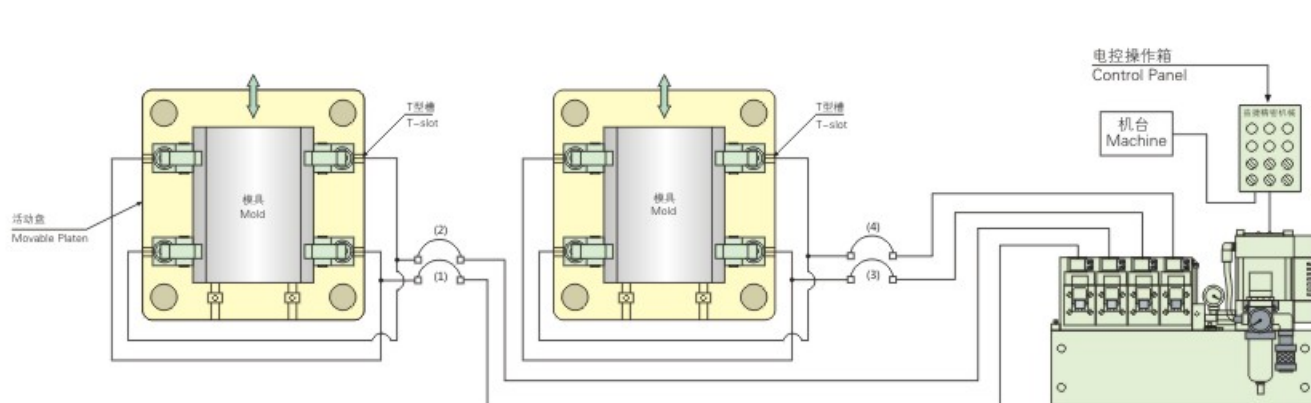
MODEL 型式		TY-2A	TY-4A	TY-6A	TY-10A	TY-16A	TY-25A	TY-50A	
夹力	Capacity of clamp	tons	2	4	6	10	16	25	50
总行程 (X)	Total stroke (X)	mm	8	8	8	8	8	10	
夹具行程 (Y)	Stroke of clamp (Y)	mm	3	3	3	3	3	4	
预留行程 (Z)	Preserved stroke (Z)	mm	5	5	5	5	5	6	
油缸总容量	Total volume of cylinder	cc	8	13	22	38	60	98	220

Hydraulic Pressure 使用油压压力: 250kg/cm²

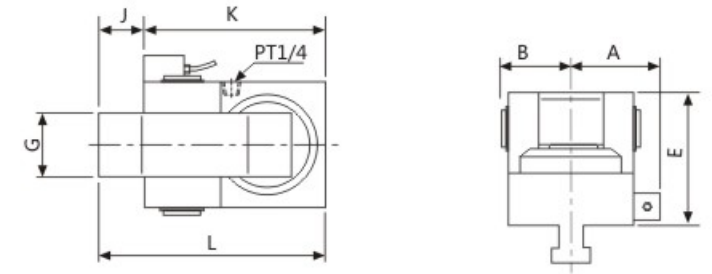
外型尺寸 Outline Dimensions

型号 Model	L	J	K	F	G	MIN. E	PT	T槽参照尺寸(mm) T slot size reference			
								a	b	c	d
TY-2A	107	22	85	65	28	59	1/8	22	37	16	24
TY-4A	150	30	120	87	40	85	1/4	22	37	16	24
TY-6A	168	30	133	97	44	94	1/4	28	48	20	28
TY-10A	195	30	165	110	50	105	1/4	28	48	20	28
TY-16A	235	35	200	130	60	120	1/4	28	48	23	28
TY-25A	275	35	240	152	73	133	1/4	36	56	25	28
TY-50A	325	35	290	246	110	180	1/4	48	80	36	48

上方换模/Vertical Loading | 台盘有T型槽 Platen with T-slot



TY-N



规格说明 Instruction of Specification

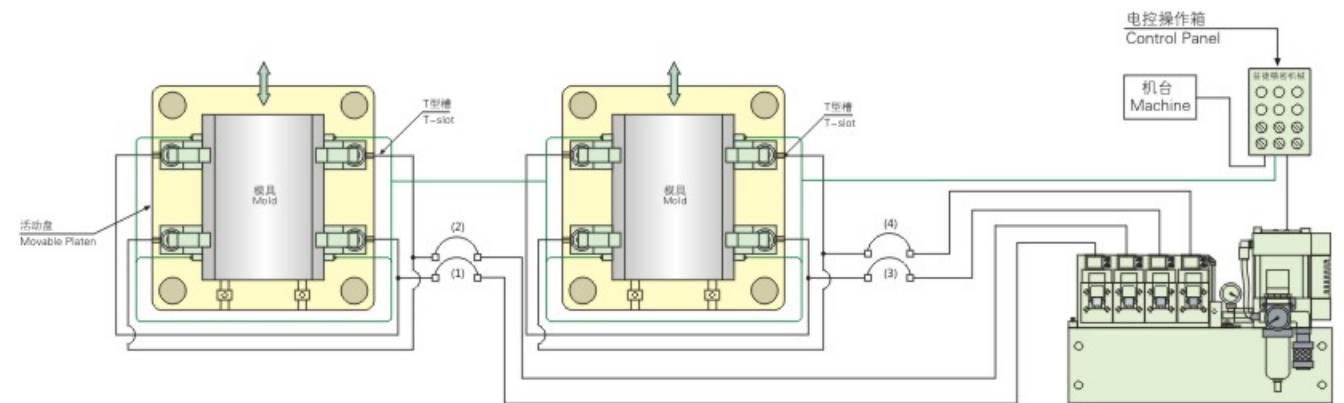
MODEL 型式		TY-2N	TY-4N	TY-6N	TY-10N	TY-16N	TY-25N	TY-50N	
夹力	Capacity of clamp	tons	2	4	6	10	16	25	50
总行程 (X)	Total stroke (X)	mm	8	8	8	8	8	10	
夹具行程 (Y)	Stroke of clamp (Y)	mm	3	3	3	3	3	4	
预留行程 (Z)	Preserved stroke (Z)	mm	5	5	5	5	5	6	
油缸总容量	Total volume of cylinder	cc	8	13	22	38	60	98	220

Hydraulic Pressure 使用油压压力: 250kg/cm²

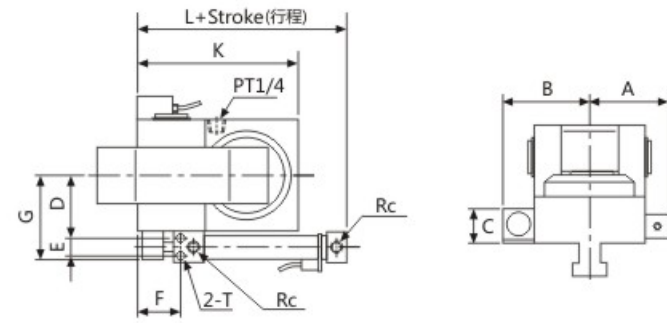
外型尺寸 Outline Dimensions

型号 Model	L	J	K	G	A	B	MIN. E	PT	T槽参照尺寸(mm) T slot size reference			
									a	b	c	d
TY-2N	107	22	85	28	56	34	59	1/8	22	37	16	24
TY-4N	150	30	120	40	62	40	85	1/4	22	37	16	24
TY-6N	168	30	133	44	70	48	94	1/4	28	48	20	28
TY-10N	195	30	165	50	80	59	105	1/4	28	48	20	28
TY-16N	235	35	200	60	86	65	120	1/4	28	48	23	28
TY-25N	275	35	240	73	100	78	133	1/4	36	56	25	28
TY-50N	325	35	290	110	145	123	180	1/4	48	80	36	48

上方换模 /Vertical Loading | 台盘有T型槽, 夹具加装近接检知。 The panel has T slot, with clamp proximity switch.



TY-C



规格说明 Instruction of Specification

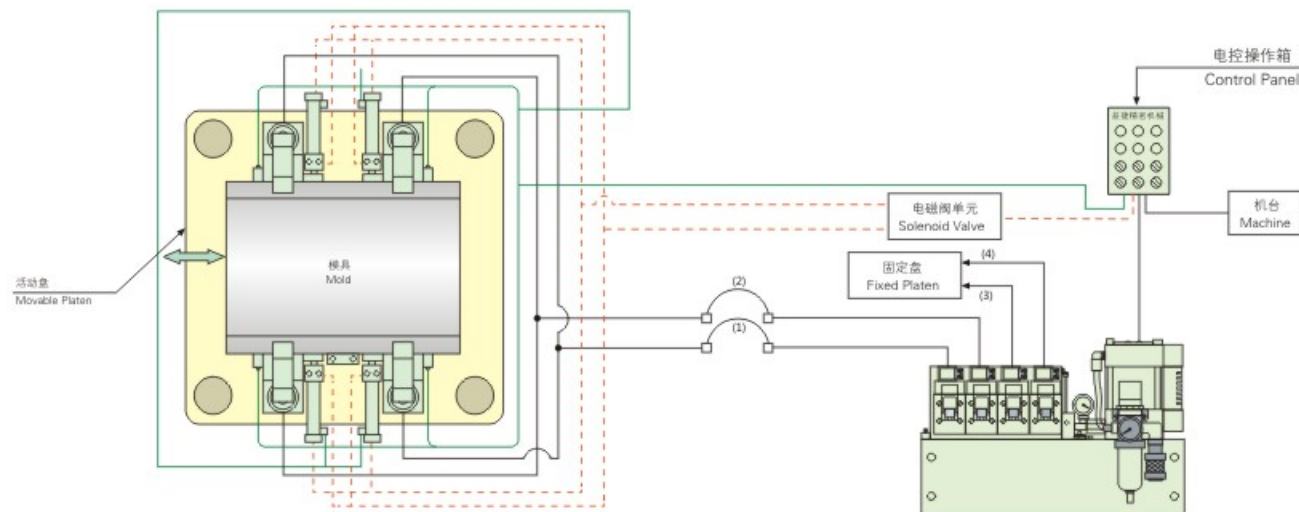
MODEL 型式	TY-2C	TY-4C	TY-6C	TY-10C	TY-16C	TY-25C	TY-50C	
夹力 Capacity of clamp	tons	2	4	6	10	16	25	50
总行程 (X) Total stroke (X)	mm	8	8	8	8	8	10	
夹具行程 (Y) Stroke of clamp (Y)	mm	3	3	3	3	3	4	
预留行程 (Z) Preserved stroke (Z)	mm	5	5	5	5	5	6	
油缸总容量 Total volume of cylinder	cc	8	13	22	38	60	98	220

Hydraulic Pressure 使用油压压力: 250kg/cm²

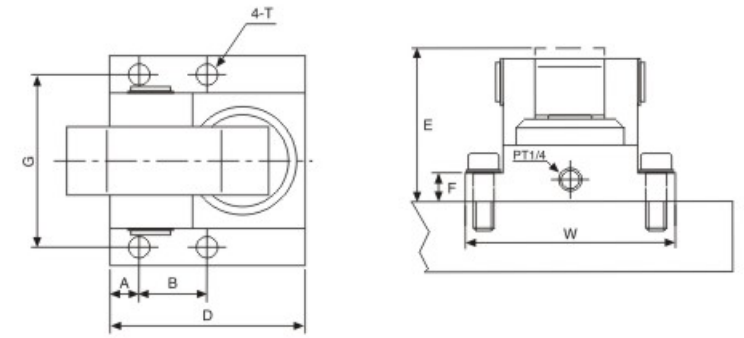
外型尺寸 Outline Dimensions

型号 MODEL	A	B	C	D	E	F	G	K	L	RC	台盘加工Tapping(T)
TY-2C	56	68	28	41	20	58	66	90	131	1/8	M6x12D
TY-4C	62	74	28	47	20	58	72	110	131	1/8	M6x12D
TY-6C	70	86	34	55	24	62	82	130	135	1/8	M6x12D
TY-10C	80	104	40	66	30	49	101	159	129	1/8	M8x16D
TY-16C	86	120	50	74	36	50	117	200	141	1/8	M10x20D
TY-25C	99	133	50	87	36	50	130	235	141	1/8	M10x20D
TY-50C	145	263	100	138	110	62	220	290	192	3/8	M16x32D

上方换模/Top and bottom clamping | 台盘有T型槽, 气缸推动夹具前进与后退。
Platen with T-slots and Cylinder push clamp forward and backward.



TY-B



规格说明 Instruction of Specification

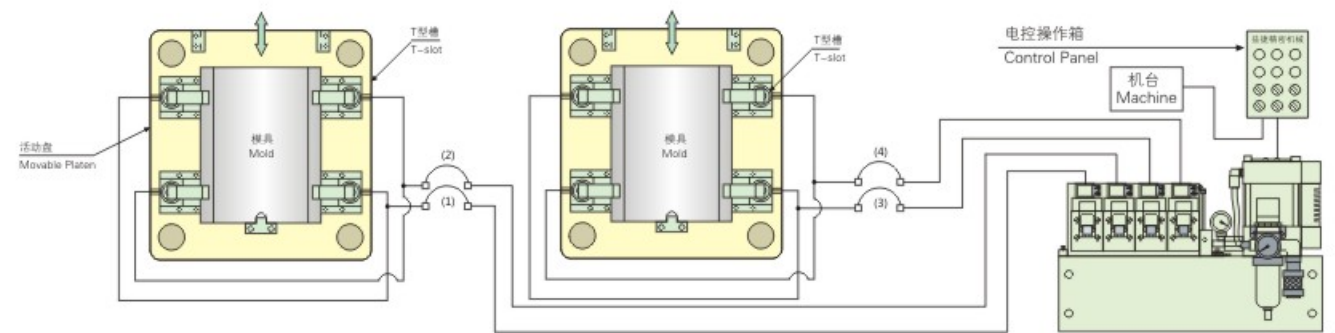
MODEL 型式	TY-2B	TY-4B	TY-6B	TY-10B	TY-16B	TY-25B	TY-50B	
夹力 Capacity of clamp	tons	2	4	6	10	16	25	50
总行程 (X) Total stroke (X)	mm	8	8	8	8	8	10	
夹具行程 (Y) Stroke of clamp (Y)	mm	3	3	3	3	3	4	
预留行程 (Z) Preserved stroke (Z)	mm	5	5	5	5	5	6	
油缸总容量 Total volume of cylinder	cc	8	13	22	38	60	98	220

Hydraulic Pressure 使用油压压力: 250kg/cm²

外型尺寸 Outline Dimensions

型号 MODEL	A	B	D	F	G	min. E	W	台盘加工Tapping(T)
TY-2B	12	35	90	20	84	90	106	M10 x 20D
TY-4B	12	40	110	25	95	93	117	M12 x 24D
TY-6B	15	45	130	30	115	109	140	M12 x 24D
TY-10B	15	55	159	30	135	131	160	M14 x 28D
TY-16B	20	65	200	30	158	142	192	M16 x 32D
TY-25B	20	80	235	30	184	163	218	M18 x 36D

上方换模 / Vertical Loading | 台盘无T型槽, 模具尺寸统一。
For Platen without T-slots and the sizes of mold is unified.

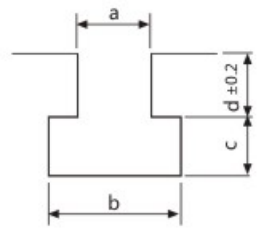


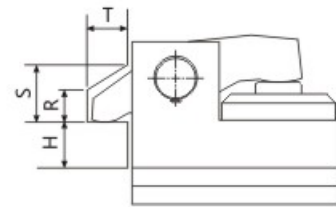
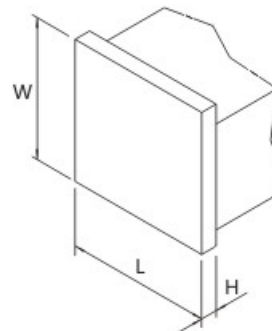
快速夹模系统订购所需资料 Quick die system to order the required information

公司名称/COMPANY: _____ 联络人/NAME: _____

电话/TEL: _____ 传真/FAX: _____

邮箱/EMAIL: _____ 地址/ADD: _____

A 机台部分	A1 机台厂牌型号	
	A2 <input type="checkbox"/> 新购 <input type="checkbox"/> 旧有	
	A3 机台种类	<input type="checkbox"/> 注塑机 <input type="checkbox"/> 压铸机 <input type="checkbox"/> 合模机 <input type="checkbox"/> 冲床 <input type="checkbox"/> 油压机
	A4 可提供图纸: <input type="checkbox"/> 机台台盘图 <input type="checkbox"/> 机台外形尺寸图	
	A5 可提供电源: <input type="checkbox"/> AC380V <input type="checkbox"/> AC220V <input type="checkbox"/> AC110V <input type="checkbox"/> DC24V	
	A6 需提供的讯号接点: <input type="checkbox"/> 射座后退 <input type="checkbox"/> 托模后退 <input type="checkbox"/> 合模完成 <input type="checkbox"/> 开模完成 <input type="checkbox"/> 急停	
	A7 机台T槽尺寸 (mm):	
	活动模 a= 固定模 a=	
	b= b=	
	c= c=	
d= d=		
A8 <input type="checkbox"/> 机台是否配置机械手		
A9 <input type="checkbox"/> 加装止滑挡块		
B 模具部分	B1 模具最大重量: _____ ton	
	B2 模具最大尺寸: L _____ mm W _____ mm	
	B3 模具最小尺寸: L _____ mm W _____ mm	
	B4 模具底板厚度: H= _____ mm	
	B5 模具工作温度: _____ °C	
	B6 模具隔热板厚度: _____ mm	
	B7 凹入型模具尺寸: S= _____ mm R= _____ mm T= _____ mm	
C 换模组件	C1 夹模方向: <input type="checkbox"/> 天地向 <input type="checkbox"/> 前后向	
	C2 固定侧夹具: TY- _____ 型 _____ 只	
	C3 活动侧夹具: TY- _____ 型 _____ 只	
	C4 气动泵浦型号: _____	
	C5 电控箱型式: <input type="checkbox"/> 机台集成 <input type="checkbox"/> 触屏式	
	C6 控制电源: <input type="checkbox"/> AC110V <input type="checkbox"/> DC24V	

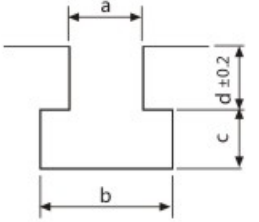


自动移模台车订购所需资料 Automatically move mould trolley order required information

公司名称/COMPANY: _____ 联络人/NAME: _____

电话/TEL: _____ 传真/FAX: _____

邮箱/EMAIL: _____ 地址/ADD: _____

A 机台部分	A1 机台厂牌型号	
	A2 <input type="checkbox"/> 新购 <input type="checkbox"/> 旧有	
	A3 机台种类	<input type="checkbox"/> 注塑机 <input type="checkbox"/> 压铸机 <input type="checkbox"/> 合模机 <input type="checkbox"/> 冲床 <input type="checkbox"/> 油压机
	A4 可提供图纸: <input type="checkbox"/> 机台台盘图 <input type="checkbox"/> 机台外形尺寸图	
	A5 可提供电源: <input type="checkbox"/> AC380V <input type="checkbox"/> AC220V <input type="checkbox"/> AC110V <input type="checkbox"/> DC24V	
	A6 需提供的讯号接点: <input type="checkbox"/> 射座后退 <input type="checkbox"/> 托模后退 <input type="checkbox"/> 合模完成 <input type="checkbox"/> 开模完成 <input type="checkbox"/> 急停	
	A7 台车型式	
	<input type="checkbox"/> 单机单模	
	<input type="checkbox"/> 单机双模	
	<input type="checkbox"/> 多机双模	
<input type="checkbox"/> 多机多模		
A8 模具移动方式: <input type="checkbox"/> 前方换模 <input type="checkbox"/> 后方换模		
A9 台车行走轨道:	<input type="checkbox"/> 埋入式 <input type="checkbox"/> 安装于地面上 <input type="checkbox"/> 台架上	
B 模具部分	B1 模具最大重量: _____ ton	
	B2 模具外形尺寸 (mm):	
	A1 _____ A2 _____ B _____ C _____ D _____ E _____ H _____	
	B3 模具底板厚度: _____ mm	
	B4 模具工作温度: _____ °C	
	B5 模具隔热板厚度: _____ mm	
B6 凹入型模具尺寸: S= _____ mm R= _____ mm T= _____ mm		
C 换模组件	C1 夹模方向: <input type="checkbox"/> 天地向	
	C2 固定侧夹具: TY- _____ 型 _____ 只	
	C3 活动侧夹具: TY- _____ 型 _____ 只	
	C4 气动泵浦型号: _____	
	C5 电控箱型式: <input type="checkbox"/> 机台集成 <input type="checkbox"/> 触屏式	
	C6 控制电源: <input type="checkbox"/> AC110V <input type="checkbox"/> DC24V	

