

HLYCP^{series} 开式智能伺服液压冲

Open type intelligent servo hydraulic punch



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适用范围 Scope Of Application



本机为开式智能伺服液压冲。主要适用于金属或非金属零件的冲切、压印、成型、深拉伸、整形及压力精密压装，组立装配等；眼镜、锁具及五金零件的压制、电子接插件、电器零件、电机转子、定子压装等。特别适用于铝、镁、铅合金压铸制品的毛边冲切及整形，塑橡胶、粉末制品的压制等；手机配件、汽机车、家用电器、精密部件行业用途最广泛。

This machine is Open type intelligent servo hydraulic punch. Mainly used for metal or non-metal parts punching, stamping, forming, deep drawing, shaping and pressure precision assembly, assembly and so on; Glasses, locks and hardware parts pressing, electronic connectors, electrical parts, motor rotor, stator pressing, etc. Especially used for aluminum, magnesium, lead alloy die-casting products raw edge punching and shaping, plastic rubber, powder products pressing; Mobile phone accessories, automobiles & motorcycle, household appliances, precision parts industry is the most widely used.

本系列机器的优势

Advantages of machines

显著节能，提高效率与安全性

Significantly save energy, improve efficiency and safety

采用泵控取代常规阀控，消除节流损失。需求油量精确的配给，通过动态调节伺服电机的速度进行优化。无用功耗少，当不需要流量或压力时，可以关闭电动机转动。配给可靠、高精的油缸制动器，简化油路，提高性能减少震动。

Use pump control instead of conventional valve control to eliminate throttling losses. Precise dosing of the required oil quantity is optimized by dynamically adjusting the speed of the servo motor. The useless power consumption is small, and the motor rotation can be turned off when flow or pressure is not needed. Equipped with reliable and high-precision cylinder brakes to simplify the oil circuit, improve performance and reduce vibration.

对环境和成本使用有正面影响

Positive impact on the environment and cost use

电力消耗减少，CO₂排放相应减少。安装容量的降低，伺服电机在短時間內可显著过载，实际安装功率比理论安装功率明显的降低。油箱容积减小50%，减少液压油的使用量。噪音低：空闲，压制，保压，返程状态下噪音明显下降，改善工作环境。

Electricity consumption is reduced, and CO₂ emissions are correspondingly reduced. With the reduction of installation capacity, the servo motor can be significantly overloaded in a short time, and the actual installed power is significantly reduced than the theoretical installed power. The tank volume is reduced by 50%, reducing the amount of hydraulic oil used. Low noise: idle, pressing, holding pressure, the noise is significantly reduced in the return state, improving the working environment.

出色的速度、位置和压力控制性能

Excellent speed, position and pressure control performance

采用伺服控制，实现闭环控制回路。特定条件下，快下和返程最大额定速度可達500mm/s，额定工進速度在5-50mm/s内任意设置。自主研发的定压，定位精度运算系统(专利号：2019SR020725)，定压精度達到±0.1Mpa，定位精度達到±0.05mm。

Servo control is adopted to realize the closed loop control. Under certain conditions, the maximum rated speed of fast underpass and return trip can be up to 500mm/s, and the rated working speed can be set arbitrarily within 5-50mm/s. The self-developed constant pressure and positioning accuracy operation system (patent No. : 2019SR020725) has a constant pressure accuracy of $\pm 0.1\text{mpa}$ and a positioning accuracy of $\pm 0.05\text{mm}$.

本系列机器的优势

Advantages of machines

个性化的编程界面

Personalized programming interface

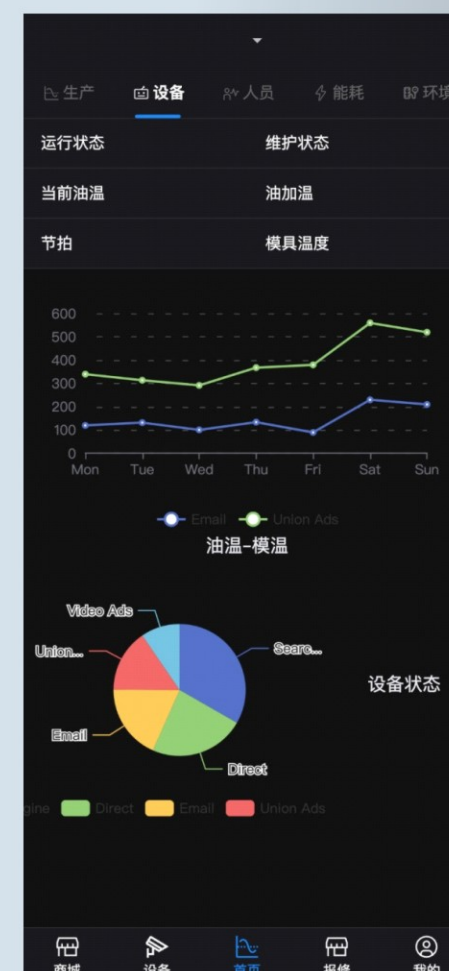


颠覆原有的液压机逻辑程序，本设备采用自由定义步进逻辑系统(专利号: 2019SR02050732)开发的自由编程空间，让你感觉到液压机也可以按自定的工艺自由编程。配上机械手,不按传统的在PLC上改写程序，我们的系统可以对设备及机械手组合进行校导，编程就这么简单。真正实现柔性控制。

Subverting the original hydraulic press logic program, the device USES a freely defined step logic system (patent No. : 2019SR02050732). The open free programming space allows you to feel the hydraulic press can also be freely programmed according to the custom process. Equipped with robot. It is not traditional to rewrite the program on PLC. Our system can calibrate and guide the combination of equipment and robot, and the programming is as simple as this. Truly realize flexible control.

具备了先进的智能服务

Advanced intelligent service



让客户无忧是我们一直奋斗的目标，设备的故障我们必须第一时间知道。手机扫描屏幕上的“智能服务”二维码，我们的设备服务平台就告诉你设备出现了什么问题，接下来的事，请放心交给我们。

Let customer reassure is our goal, we must know the failure of the machine in the first time. Scan the "intelligent service" QR code on the screen, our machine service platform will show what is the problem, then the next thing, please rest assured to us.

强悍的自动化及智能化控制能力

Automation and Intelligent is near to us



自动化上选配机械手及上料装置,搭配自由定义步进逻辑系统软件,实现设备全自动生产。智能上设备选配扫描枪，模具识别装置，搭配生产信息化管理系统，实现智能化信息化生产。同时设备配备了图构点检，智能维护等功能，保证生产的可靠性。

Automatic selection of robot and feeding device, with freely defined stepping logic system software, to achieve automatic production of equipment. Intelligent equipment is equipped with scanning gun, mold identification device and production information management system to realize intelligent information production. At the same time, the equipment is equipped with mapping point inspection, intelligent maintenance and other functions to ensure the reliability of production.

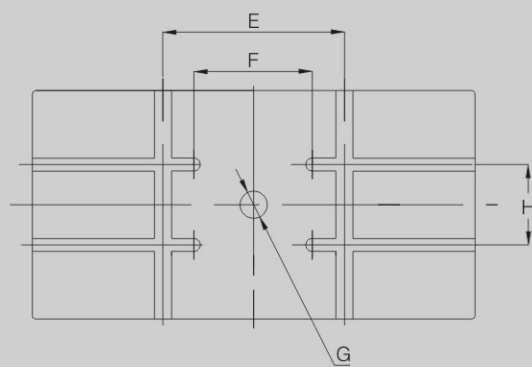
参数表 Parameter list

项目(ITEM)	单位 (UNIT)	HLYCP-45	HLYCP-60	HLYCP-80	HLYCP-100	HLYCP-125	HLYCP-160	HLYCP-200	HLYCP-250	HLYCP-315
公称压力 Cylinder pressure	Ton	45	60	80	100	125	160	200	250	315
液体最大工作压力 Top Pressure	Mpa	25	25	25	25	25	25	25	25	25
快下速度 Fast descend speed	mm/s	8-400	8-400	8-400	8-400	8-400	8-400	8-400	8-400	8-400
工进速度 Press speed speed	mm/s	5-40	5-40	5-40	5-40	5-40	5-40	5-40	5-40	5-40
回程速度 Ascend speed	mm/s	8-400	8-400	8-400	8-400	8-400	8-400	8-400	8-400	8-400
主缸行程 Main cylinder stroke	mm	240	260	280	300	340	380	420	460	500
封闭高度 Close height	mm	190	230	250	280	320	360	370	380	400
上工作台尺寸 Upper worktable size	mm	650*300*60	710*360*70	800*420*70	850*450*80	900*470*80	1000*550*90	1120*630*90	1250*700*100	1320*800*100
下工作台尺寸 Bottom worktable size	mm	850*440*80	900*500*90	1000*550*90	1060*570*120	1150*600*120	1250*800*140	1400*820*160	1500*840*180	1600*900*200
*下缸 Lower cylinder	Ton	10	15	20	25	25	30	40	50	60
*下缸行程 lower cylinder stroke	mm	100	110	120	130	140	150	180	200	230
*模垫有效面积 Mold cushion size	mm	320*230	330*250	350*270	380*270	430*280	440*390	580*450	680*510	710*650
*模垫中心螺纹 Mold cushion center thread	mm	M16	M20	M24	M24	M24	M24	M30	M30	M36
*中心缸 Center cylinder	Ton	3	3	3	3	5	5	5	10	10
*中心缸行程 Center cylinder stroke	mm	70	80	90	100	110	120	150	170	200
*中心杆螺纹 Center rod thread	mm	M10	M10	M10	M10	M12	M12	M12	M16	M16
工作台距地面高度 Height from worktable to floor	mm	780	800	830	850	850	900	950	1000	1050

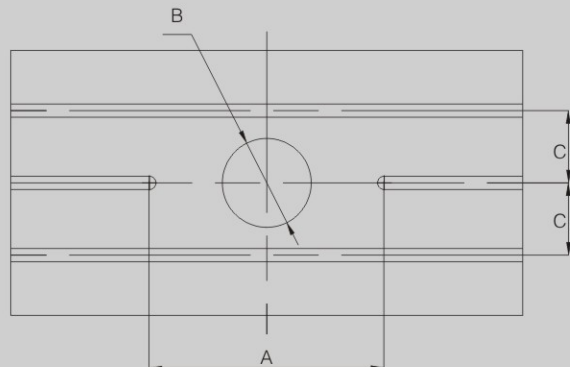
注：1. “*” 为选配装置 2. 以上参数可以根据实际要求定制
Note: 1. “*” is optional device 2. Above parameter can be customized according to actual requirements

参数表 Parameter list

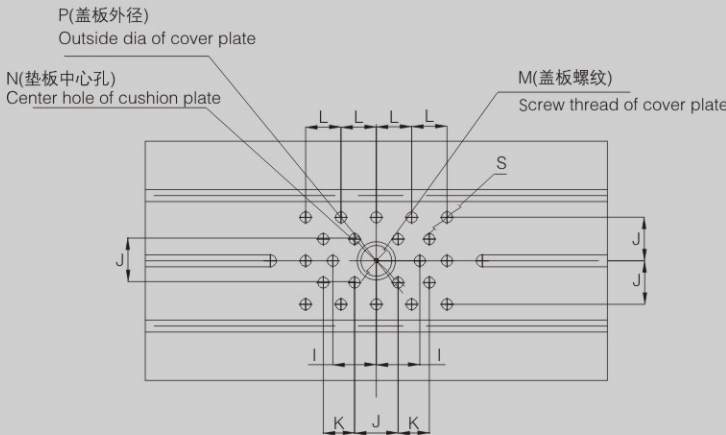
注：具体参数可以根据客户要求实际定制
Detail parameter can be customized according to actual requirements



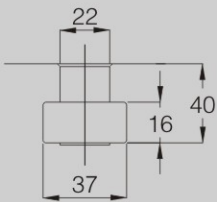
上工作台
Upper worktable



下工作台(I款)
Bottom worktable I



下工作台(II款)
Bottom worktable II



T型槽
T slot

项目(ITEM)	A	B	C	E	F	G	H	I	J	K	L	M	N	P	S
HLYCP-45	390	Ø150	120	200	150	Ø30	120	80	—	—	65	M16	Ø70	Ø120	Ø20
HLYCP-60	440	Ø160	150	220	160	Ø30	160	100	—	—	80	M20	Ø90	Ø145	Ø20
HLYCP-80	560	Ø180	160	300	160	Ø30	180	110	—	—	100	M24	Ø100	Ø155	Ø25
HLYCP-100	580	Ø200	160	300	160	Ø30	220	120	—	—	110	M24	Ø110	Ø165	Ø30
HLYCP-125	580	Ø200	160	300	160	Ø35	220	120	—	—	110	M24	Ø110	Ø165	Ø30
HLYCP-160	750	Ø220	220	300	175	Ø35	220	160	160	145	150	M24	Ø120	Ø175	Ø30
HLYCP-200	810	Ø240	280	420	200	Ø35	300	200	200	140	160	M30	Ø130	Ø190	Ø35
HLYCP-250	920	Ø260	290	420	200	Ø45	300	200	200	170	180	M30	Ø140	Ø200	Ø40
HLYCP-300	920	Ø260	290	420	200	Ø45	300	200	200	170	180	M36	Ø150	Ø210	Ø45

配置表

Configuration list

项目Item	配置Configuration	基本款Basic	选配Selection
配件 (Parts)			
	电动润滑给油装置 Electric cycle LUB device	☐	
	空气源及喷风接头 Air Sources &Breeze Joint	☐	
	电源插座 Power outlet (AC220V.10A)	☐	
	工作照明灯 working Light Devices		☐
	滑块中缸 Slider center cylinder		☐
	自动化装置 Automation device		☐
	液压垫分段比例调压系统 Cushion subsection proportional control system	☐	
模垫 Mold cushion	液压垫 Cushion		☐
	气模垫 Air mold cushion		☐
冷却器 Cooler	水冷Water cooler	☐	
	强制 Forced cooler		☐
安全防护 Safety Device	前安全门Front safety door		☐
	左右防护罩 L-R protective cover		☐
	光栅保护 Grating protection	☐	
快换模装置 Fast speed change mold device	举模器 Mold lifter		☐
	举模臂 Mold lifter arm		☐
	夹模器 Mold clamp		☐
移动操纵台 Movable Operation Device	脚踏 Pedal		☐
	双手 Both hands	☐	
	手持调模器 Hand-held modulator		☐
功能 (Function)			
	冲压缓冲装置 Press buffer device		☐
	模具识别装置 Mold recognition function		☐
	油加热装置 Oil heating device		☐
	三色灯运转指示灯 Three-color operating indicator light	☐	
模温装置 Mold TEMP device	加温 Heating		☐
	冷却 Cooling		☐
智能化装置 Intelligent device	人脸识别 Face identification		☐
	模内检测视觉In-mode inspection vision		☐
	产品检测视觉Product inspection vision		☐
	能耗检测装置Energy consumption detection device		☐
	扫描枪接口Scanning interface	☐	
	物联接口 Web interface	☐	
软件系统 (System software)			☐
	自定义编程操作系统 Custom programming operating system		☐
	设备点检系统 Machine inspection system		☐
	设备诊断系统 Machine diagnostic system		☐
	智能服务平台系统 Intelligent service system		☐
	生产信息化管理系统 Production information management system		☐
	模具储存量系统 Mold storage system	☐	
附件 (Attachment)			
	使用说明书 Use Manual	☐	
	合格证明书 Certification	☐	
	地脚螺栓 Anchor bolt	☐	
	防震脚垫 Shockproof pads		☐