

HLYP^{series}

四柱式智能伺服液压冲

FOUR-COLUMN INTELLIGENT SERVO HYDRAULIC PUNCH



HLYP^{series} 四柱式智能伺服液压冲

Four-column intelligent servo hydraulic punch



适用范围 Scope Of Application



本系列机器为四柱式智能伺服液压冲。主要适用于金属或非金属的压形、拉伸、弯曲、翻边、精切、精冲、挤压、精密压花及精密压装等工艺。

This series machine is Four-column intelligent servo hydraulic punch. It mainly applicable to metal or non-metal pressing, drawing, bending, flanging, high-precision trimming and punching, extrusion, precise embossing and precise pressing, etc.



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。

Using pump control instead of conventional valve control, eliminate the loss of throttle. Accurate oil allocation by dynamic adjustment of servomotor speed optimization. Useless power consumption, when no flow or pressure is required, the motor can be turned off. Reliable delivering and high precision oil cylinder brake can simplify oil circuit, improve performance and reduce vibration.

对环境 and 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。

With the reduction of power consumption and CO₂ emission. reduced installation capacity. the servo motor can be significantly overloaded in a short time, and the actual installation power is obviously lower than the theoretical installation power. The volume of oil tank is reduced by 50%, and the use of hydraulic oil is reduced. Low noise in idle, pressing, holding pressure, ascending 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

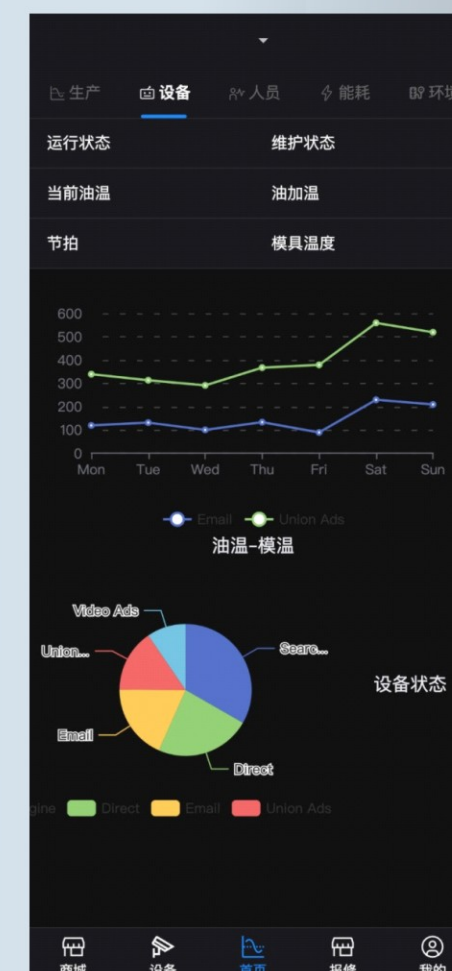


颠覆原有的液压机逻辑程序，本设备采用自由定义步进逻辑系统(专利号：2019SR02050732)开发的自由编程空间，让你感觉到液压机也可以按自定的工艺自由编程。配上机械手,不按传统的在PLC上改写程序，我们的系统可以对设备及机械手组合进行校导，编程就这么简单。真正实现柔性控制。

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

項目(ITEM)	單位 (UNIT)	HLYP-80T	HLYP-100T	HLYP-125T	HLYP-160T	HLYP-200T	HLYP-250T	HLYP-315T	HLYP-400T	HLYP-500T	HLYP-630T	HLYP-800T	HLYP-1000T	HLYP-1250T	HLYP-1600T	HLYP-2000T
公稱壓力 Cylinder pressure	Ton	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000
液體最大工作壓力 Top Pressure	Mpa	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
快下速度 Fast descend speed	mm/s	50 ~ 320	50 ~ 320	50 ~ 320	50 ~ 320	50 ~ 320	50 ~ 320	50 ~ 320	50 ~ 320	50 ~ 320	50 ~ 329	50 ~ 330	50 ~ 320	50 ~ 320	50 ~ 320	50 ~ 320
工進速度 Press speed	mm/s	3 ~ 23	3 ~ 23	3 ~ 23	3 ~ 23	3 ~ 23	3 ~ 23	3 ~ 23	3 ~ 23	3 ~ 23	3 ~ 23	3 ~ 23	3 ~ 23	3 ~ 23	3 ~ 23	3 ~ 20
回程速度 Ascend speed	mm/s	50 ~ 320	50 ~ 320	50 ~ 320	50 ~ 320	50 ~ 320	50 ~ 320	50 ~ 320	50 ~ 320	50 ~ 320	50 ~ 319	50 ~ 320	50 ~ 320	50 ~ 320	50 ~ 320	50 ~ 320
主缸行程 Main cylinder stroke	mm	200	220	230	230	250	250	280	280	280	300	300	300	320	320	320
封閉高度 Close height	mm	300	320	350	360	370	380	400	400	420	430	450	460	470	480	500
工作臺尺寸(左右*前後) Worktable size (L&R* F&R)	mm	370*420	450*500	480*520	500*550	530*570	570*600	600*630	650*670	700*720	750*760	850*850	950*920	1050*1000	1180*1100	1320*1250
*下缸壓力 Lower cylinder pressure	Ton	16	20	25	32	40	50	63	80	100	125	160	200	250	315	400
*下缸行程 lower cylinder stroke	mm	80	90	100	100	110	110	125	125	125	130	130	130	140	140	140
*模墊有效面積 Mold cushion size	mm	250*300	315*365	330*370	335*385	350*390	375*405	385*415	410*430	420*440	450*460	480*480	550*520	600*550	680*600	760*690
*模墊中心螺紋 Mold cushion center thread	mm	M20	M24	M24	M24	M30	M30	M36	M36	M48	M48	M48	M64	M64	M64	M64
*中缸壓力 Center cylinder pressure	Ton	3	3	5	5	5	10	10	16	16	20	20	20	25	25	25
*中缸行程 Center cylinder stroke	mm	60	70	80	80	90	90	100	100	100	110	110	110	120	120	120
*中杆螺紋 Center rod thread	mm	M10	M10	M12	M12	M12	M16	M16	M20	M20	M24	M24	M24	M24	M24	M24
工作臺距地面高度 Height from worktable to floor	mm	800	800	850	850	850	850	900	900	900	950	950	950	1000	1000	1000

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		☐