

**HLYD** series

**智能多工位液压机线体**  
Intelligent multi-station hydraulic press lines



# HLYD series 智能多工位液压机线体

Intelligent multi-station hydraulic press lines



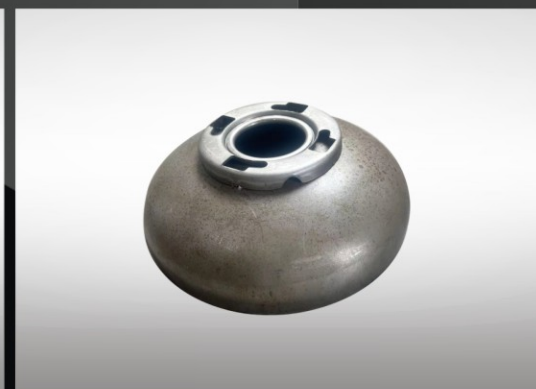


## 适用范围 Scope Of Application



本机为智能多工位液压机线体。主要适用于金属材料的拉伸，冲压、修边、翻边、弯曲、冷挤压等成型工艺的连续全自动生产。

This machine is a Intelligent multi-station hydraulic press lines. It is mainly used for continuous and fully automatic production of metal material drawing, stamping, trimming, flanging, bending, cold extrusion and other forming processes.





## 本系列机器结构

Structure of machines

### HLVD为三梁多柱锁紧封闭式结构

HLVD is a three-beam and multi-column locking enclosed structure

结构紧凑，性价比高。油箱位于机顶后方。滑块采用四柱导向，上下运动。机架采用钢板焊接，整个机架刚性坚固。配合自动化生产，迎合现代化的生产需求。

With compact structure and high cost performance. The oil tank is located behind the top of fuselage. Each slider is guided by four columns and moves up and down. The frame is welded by steel plate, the whole frame is rigid and strong. Cooperate with manipulators to realize fully automated production and meet modern production requirements.

### HLVND为整体封闭框架式结构

HLVNS is an integral closed frame structure,

机架采用榫卯连接箱体结构，焊接后，经热处理消除床身内应力，机身整体高刚性。滑块采用四角八面导轨导向，导向精度可调并调节方便，导轨材料采用高力黄铜，动、静导轨板之间形成摩擦副，设备高精密。

The frame adopts mortise and tenon joint box structure, after welding, heat treatment to eliminate the internal stress of the bed, and the overall high rigidity of the fuselage. The slide block is guided by four-corner eight-sided guide rail, the guiding accuracy is adjustable and easy to adjust, the guide rail material is made of high-force brass, friction pairs are formed between the moving and static guide rails, and the equipment is high precision.

## 本系列机器的优势

### Advantages of machines

#### 生产频率更高、生产效率更好

The production frequency is higher and the production efficiency is better

把多台设备合并到一台设备。结构非常紧凑，生产多道工序的产品，传送距离大大缩小。采用多工位工艺制取代常规单台联机结构，提高了机器的功能，有效的简化机器，降低了机器故障，机器更加整体美观（专利号：2019.3 0013247.0），自动化更强，对需要大批量生产的产品是一种非常好的选择（通过科学技术成果鉴定，具有国际先进水平。专利号：2019.2 0039872.7）。

Combine multiple devices into a single device. Very compact structure, production of multi - process products, transport distance greatly reduced. Adopting multi-step process system instead of the conventional single online structure, improve the function of the machine, can effectively simplify, reduce the machine failure, and the machine overall appearance is more beautiful (patent no. : 2019.3 0013247.0), automation stronger, is a very good choice to mass production of the product , (through scientific and technological achievements appraisal, with international advanced level. Patent No. : 2019.2 0039872.7).

#### 生产配合度高

High production coordination degree.

机器具有非常高人性化特点：手持调模器，同步顶出，机器状态三色灯，多状态的机械夹手（专利号：2019.20039539.6），自定义程序等。所以非常适合需要多道工序生产的产品成型。机器整体封闭式结构，整个机架刚性强固，偏心负载受力强悍，生产效果非常显著。

The machine has very humanized characteristics: Hand-held modulator, synchronous ejection, three-color lights of machine state, multi-state mechanical clamps (Patent No.: 2019.2 0039539.6) , custom program etc. So it is very suitable for the molding of products that need multiple processes. The machine has a closed structure, the whole frame is rigid and strong, the eccentric load is strong, and the production effect is very remarkable.

#### 出色的速度、位置和压力控制性能

Excellent speed, position and pressure control performance

采用电液伺服控制，实现闭环控制回路。特定条件下，拉伸速度在3-60mm/s内任意设置。不同的产品及材料，调整不同的拉伸速度，增加拉伸的柔性效果。自主研发的定压，定位精度运算系统（专利号：2019SR020725），定压及定位达到非常高的精度。

Electro-hydraulic servo control is adopted to realize the closed loop control. Under certain conditions, the stretching speed can adjust in 3-60mm/s. For different products and materials, different stretching speed can be adjusted to increase the flexibility of stretching. We are independently developed the constant pressure and positioning precision operation system (Patent No. 2019SR0207225), The constant pressure and positioning achieve very high accuracy.

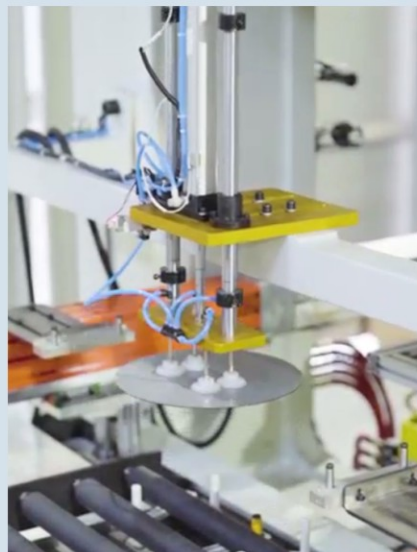


## 本系列机器的优势

### Advantages of machines

#### 可靠的辅助装置：多状态的机械夹手

Reliable assistive devices: multi-state mechanical clamps

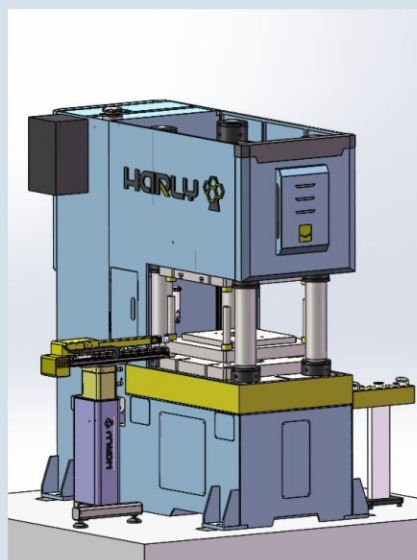


自动化的基础是稳定性。不同的产品,不同的工序,种类的多样性必须要有可靠的机械夹手在不同的状态下有效的执行工作。多状态的机械夹手(专利号:2019.2 0039539.6)在这种环境下诞生。让你感觉到高难度的搬运变的没有难度。生产的可靠性大大提高。

The basic of automation is stability. Different products, different processes, the variety of types must have reliable mechanical clamps in different states of effective execution of the work. The multi-state mechanical clamps (patent No. : 2019.2 0039539.6) was born in this environment. Let you feel the difficult handling becomes no difficulty. The reliability of production has been greatly improved.

#### 自动化及智能化离我们很近

Automation and Intelligent is near to us



标准配置二次元, 三次元机械手及上料装置, 搭配自定义步进程序, 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.

#### 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.

## 本系列机器的专利 Patents of machine





参数表 Parameter list



| 项目<br>Item                                   |                | 单位<br>Unit                                                                  | 60T                                                                                                                             |               | 80T           |               | 100T          |               | 120T          |               | 160T          |               | 200T          |               | 260T          |               | 320T          |               | 400T          |               | 500T          |               | 630T          |                |               |                | 800T          |                |               |                | 1000T         |                |               |                |
|----------------------------------------------|----------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|
| 油缸类型<br>Cylinder model                       |                |                                                                             | P型<br>(model)                                                                                                                   | D型<br>(model) | P型<br>(model) | D型<br>(model) | P型<br>(model) | D型<br>(model) | P型<br>(model) | D型<br>(model) | P型<br>(model) | D型<br>(model) | P型<br>(model) | D型<br>(model) | P型<br>(model) | D型<br>(model) | P型<br>(model) | D型<br>(model) | P型<br>(model) | D型<br>(model) | P型<br>(model) | D型<br>(model) | P型<br>(model) | P2型<br>(model) | D型<br>(model) | D2型<br>(model) | P型<br>(model) | P2型<br>(model) | D型<br>(model) | D2型<br>(model) | P型<br>(model) | P2型<br>(model) | D型<br>(model) | D2型<br>(model) |
| 公称压力<br>Normal pressure                      |                | Mpa                                                                         | 25.5                                                                                                                            | 25            | 25.7          | 25.5          | 25.5          | 25.5          | 25            | 25.5          | 26            | 25            | 25.5          | 26            | 25.5          | 25.5          | 25            | 25.5          | 25.5          | 25.2          | 25.3          | 25.5          | 26            |                | 25.5          |                | 26            |                | 25.7          |                | 26            |                | 25.3          |                |
| 快 下<br>Fast descend                          | 压力<br>Pressure | Ton                                                                         | 6.5                                                                                                                             | 6             | 8.5           | 8             | 10            | 10            | 12            | 12            | 15            | 15            | 15            | 20            | 15            | 24            | 15            | 31            | 19            | 39            | 22            | 51            | 31            |                | 31            |                | 41            |                | 40            |                | 52            |                | 51            |                |
|                                              | 速度<br>speed    | mm/s                                                                        | 0-446                                                                                                                           | 0-477         | 0-430         | 0-427         | 0-452         | 0-470         | 0-478         | 0-451         | 0-458         | 0-446         | 0-458         | 0-451         | 0-461         | 0-486         | 0-455         | 0-462         | 0-469         | 0-460         | 0-400         | 0-402         | 0-481         |                | 0-462         |                | 0-450         |                | 0-460         |                | 0-404         |                | 0-402         |                |
| 快 压<br>Fast press                            | 压力<br>Pressure | Ton                                                                         | 13                                                                                                                              |               | 16            |               | 20            |               | 24            |               | 32            |               | 32            |               | 32            |               | 32            |               | 39            |               | 44            |               | 63            |                |               |                | 81            |                |               |                | 103           |                |               |                |
|                                              | 速度<br>speed    | mm/s                                                                        | 0-225                                                                                                                           |               | 0-222         |               | 0-227         |               | 0-238         |               | 0-230         |               | 0-230         |               | 0-230         |               | 0-230         |               | 0-230         |               | 0-200         |               | 0-235         |                |               |                | 0-225         |                |               |                | 0-203         |                |               |                |
| 压 制<br>Press                                 | 压力<br>Pressure | Ton                                                                         | 60                                                                                                                              | 60            | 80            | 80            | 100           | 100           | 120           | 120           | 160           | 160           | 200           | 200           | 260           | 260           | 320           | 320           | 400           | 400           | 500           | 500           | 630           |                | 630           |                | 800           |                | 800           |                | 1000          |                | 1000          |                |
|                                              | 速度<br>speed    | mm/s                                                                        | 0-48                                                                                                                            | 0-47          | 0-45          | 0-45          | 0-45          | 0-45          | 0-47          | 0-48          | 0-45          | 0-44          | 0-45          | 0-45          | 0-45          | 0-45          | 0-45          | 0-45          | 0-45          | 0-45          | 0-40          | 0-41          | 0-23          | 0-46           | 0-23          | 0-46           | 0-23          | 0-46           | 0-23          | 0-46           | 0-20          | 0-41           | 0-20          | 0-40           |
| 回 程<br>Ascend                                | 压力<br>Pressure | Ton                                                                         | 6                                                                                                                               | 6             | 8             | 8             | 10            | 10            | 12            | 12            | 15            | 15            | 15            | 19            | 15            | 25            | 15            | 31            | 20            | 43            | 22            | 49            | 32            |                | 33            |                | 40            |                | 38            |                | 51            |                | 50            |                |
|                                              | 速度<br>speed    | mm/s                                                                        | 0-456                                                                                                                           | 0-470         | 0-462         | 0-463         | 0-455         | 0-464         | 0-475         | 0-466         | 0-465         | 0-434         | 0-465         | 0-489         | 0-462         | 0-465         | 0-468         | 0-463         | 0-451         | 0-412         | 0-402         | 0-422         | 0-461         |                | 0-436         |                | 0-452         |                | 0-483         |                | 0-407         |                | 0-408         |                |
| 主缸最大行程<br>Cylinder max stroke                |                | mm                                                                          | 450                                                                                                                             | 450           | 450           | 450           | 450           | 450           | 450           | 450           | 450           | 450           | 450           | 450           | 450           | 450           | 450           | 450           | 450           | 450           | 450           | 450           | 450           |                | 450           |                | 450           |                | 450           |                | 450           |                | 450           |                |
| 最大闭合高度<br>Max daylight                       |                | mm                                                                          | 600                                                                                                                             | 600           | 600           | 600           | 600           | 600           | 600           | 600           | 600           | 600           | 600           | 600           | 600           | 600           | 600           | 600           | 600           | 600           | 600           | 600           | 600           |                | 600           |                | 600           |                | 600           |                | 600           |                | 600           |                |
| 油缸步距系数<br>Cylinder interval coefficient      |                | mm                                                                          | 185                                                                                                                             | 140           | 195           | 155           | 200           | 170           | 210           | 190           | 235           | 215           | 260           | 240           | 290           | 265           | 325           | 290           | 355           | 325           | 395           | 355           | 440           |                | 400           |                | 490           |                | 445           |                | 545           |                | 500           |                |
| *油缸步距系数 2<br>Cylinder interval coefficient 2 |                | mm                                                                          | 93                                                                                                                              | 70            | 98            | 78            | 100           | 85            | 105           | 95            | 118           | 108           | 130           | 120           | 145           | 133           | 163           | 145           | 178           | 163           | 198           | 178           | 220           |                | 220           |                | 245           |                | 223           |                | 273           |                | 250           |                |
| 下工作台板<br>working platen                      | 左右<br>L-R      | mm                                                                          | 步距B*(步数S+1) 空位、内出料位作为步数计算<br>Interval B*(interval S+1) Empty station and inner discharge station as interval number calculated. |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |                |               |                |               |                |               |                |               |                |               |                |
|                                              | 前后<br>F-R      | mm                                                                          | 860                                                                                                                             |               |               |               |               |               |               |               |               |               |               |               |               |               | 900           |               | 950           |               | 1000          |               | 1050          |                |               |                |               |                |               |                |               |                |               |                |
| 侧门宽度<br>Side door width                      |                | mm                                                                          | 1300                                                                                                                            |               |               |               |               |               |               |               |               |               |               |               |               |               | 1350          |               |               |               | 1400          |               | 1450          |                |               |                |               |                |               |                |               |                |               |                |
| 上工作台板<br>Slide Area                          | 左右<br>L-R      | mm                                                                          | 步距B-40<br>Interval B-40                                                                                                         |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |                |               |                |               |                |               |                |               |                |               |                |
|                                              | 前后<br>F-R      | mm                                                                          | 800                                                                                                                             |               |               |               |               |               |               |               |               |               |               |               |               |               | 850           |               | 900           |               | 950           |               | 1000          |                |               |                |               |                |               |                |               |                |               |                |
| 产品出料方法<br>Product discharge method           |                | 侧出料/后出料(优先侧出料)<br>Side discharge/ rear discharge (preferred side discharge) |                                                                                                                                 |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |                |               |                |               |                |               |                |               |                |               |                |
| 产品进料方法<br>Product feeding method             |                | 左进料/右进料(优先左进料)<br>Left feeding/ Right feeding (Preferred left feeding)      |                                                                                                                                 |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |                |               |                |               |                |               |                |               |                |               |                |

注：一. 以上為標準配置, 實際配置可以客户要求定做  
二. 下工作臺板前後尺寸、側門寬度、上工作臺板前後按各工位中最大噸位確定尺寸  
三. HLYD型液壓機步距設定說明

1. 最小步距設定: 選擇最大相鄰兩油缸步距系數之和 例如:

- (1) 型號: HLYD-PH900-5
- (2) 型號意思: 多工位900噸5工位液壓機(方缸滑塊導向)
- (3) 步距噸位排列:
- (4) 最小步距選擇: 260T與200T的步距系數之和
- (5) 查步距系數表可以得出最小步距為: 290+260=550
- (6) 當步距過大可增加空位减小步距, 此時步距系數選帶 “\*” 符號的步距系數2進行計算

| 1工位  | 2工位  | 3工位  | 4工位  | 5工位  |
|------|------|------|------|------|
| 160T | 260T | 200T | 160T | 120T |

Note: 一. Above is standard configuration, the actual configuration can be customized to customer requirements  
二. We are all according the biggest tonnages to sure the working platen size (F-A), side door width and slide size (F-A).  
三. HLYD series hydraulic press interval setting explain

1. Minimum interval setting: chose the interval coefficient sum of max two adjacent cylinder

- (1) Model: HLYD-PH900-5
- (2) Model meaning: Multi-station 900 Tons five stations hydraulic press (square cylinder slider guiding)
- (3) Interval tonnage arrangement:
- (4) Minimum interval choose: The interval coefficient sum of 260T and 200T
- (5) Check interval coefficient list to get minimum interval is: 290+260=550

| First station | Second station | Third station | Fourth station | Fifth station |
|---------------|----------------|---------------|----------------|---------------|
| 160T          | 260T           | 200T          | 160T           | 120T          |

(6) When the interval is so big, we can increase empty station to reduce interval. This moment, we can choose the interval coefficient 2 with “\*” symbolic to calculate



参数表 Parameter list



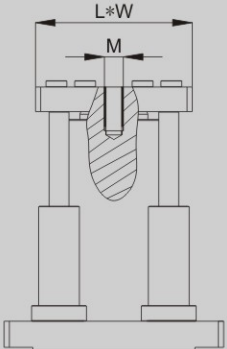
液压垫技术参数

Hydraulic cushion technology parameters

| 项目<br>Item                                                               | 单位<br>Unit | HLBF<br>-A5         | HLBF<br>-A10 | HLBF<br>-A15 | HLBF<br>-A20 | HLBF<br>-A25 | HLBF<br>-A30 | HLBF<br>-A40 | HLBF<br>-A50 | HLBF<br>-A60 | HLBF<br>-A80 | HLBF<br>-A100           | HLBF<br>-A120 | HLBF<br>-A160              | HLBF<br>-A200 | HLBF<br>-A250               | HLBF<br>-A300 |
|--------------------------------------------------------------------------|------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------------|---------------|----------------------------|---------------|-----------------------------|---------------|
| 吨位<br>Tonnage                                                            | T          | 5                   | 10           | 15           | 20           | 25           | 30           | 40           | 50           | 60           | 80           | 100                     | 120           | 160                        | 200           | 250                         | 300           |
| 行程<br>stroke                                                             | mm         | 160                 | 160          | 160          | 160          | 160          | 160          | 160          | 160          | 160          | 160          | 160                     | 160           | 160                        | 160           | 160                         | 160           |
| 垫板尺寸L*W<br>Cushion size                                                  | mm         | 350*350mm           |              |              |              |              |              |              |              |              |              | 400*400                 | 420*420       | 460*460                    | 520*520       | 580*580                     | 620*620       |
| 顶杆直径<br>Ejector rob diameter                                             | mm         | Φ20                 |              | Φ25          |              | Φ30          |              | Φ35          |              | Φ40          |              | Φ50                     |               | Φ60                        |               | Φ75                         |               |
| 顶杆孔与孔中心直径距离<br>Diameter distance from<br>ejector rob hole to hole centre | mm         | I, II, III型 (model) |              |              |              |              |              |              |              |              |              | I, II, III, IV型 (model) |               | I, II, III, IV, V型 (model) |               | II, III, IV, V, VI型 (model) |               |
| ☆工作台中心孔直径<br>Center hole diameter<br>of worktable                        | mm         | Φ50                 | Φ50          | Φ60          | Φ60          | Φ70          | Φ70          | Φ80          | Φ80          | Φ100         | Φ100         | Φ120                    | Φ120          | Φ150                       | Φ150          | Φ190                        | Φ190          |
| ☆液压垫中心螺纹M<br>Cushion centre thread M                                     | mm         | M12                 | M16          | M20          | M24          | M24          | M24          | M30*3.5      | M30*3.5      | M36*4        | M36*4        | M48*5                   | M48*5         | M48*5                      | M64*6         | M64*6                       | M76*6         |

- 一. 标准 ☆符号为选配结构  
Standard ☆ is optional configuration construction
- 二. 标准配置版本号3.0, 实际配置可以客户要求定做  
standard configuration version No, 3.0, the actual configuration can be customized to customer requirements
- 三. 工作台板上的顶杆孔中心距离Z分下列选型  
Centre distance of ejector rob hole of working platen Z has following model

|   | I型<br>(model) | II型<br>(model) | III型<br>(model) | IV型<br>(model) | V型<br>(model) | VI型<br>(model) |
|---|---------------|----------------|-----------------|----------------|---------------|----------------|
| Z | Φ220          | Φ260           | Φ300            | Φ350           | Φ400          | Φ500           |

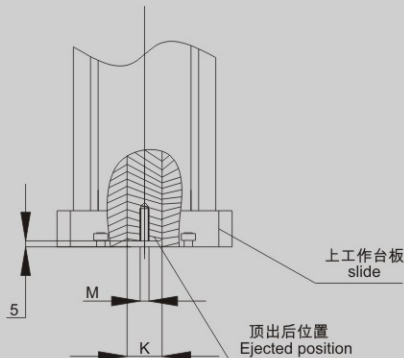


脱料装置技术参数

Stripping device parameters

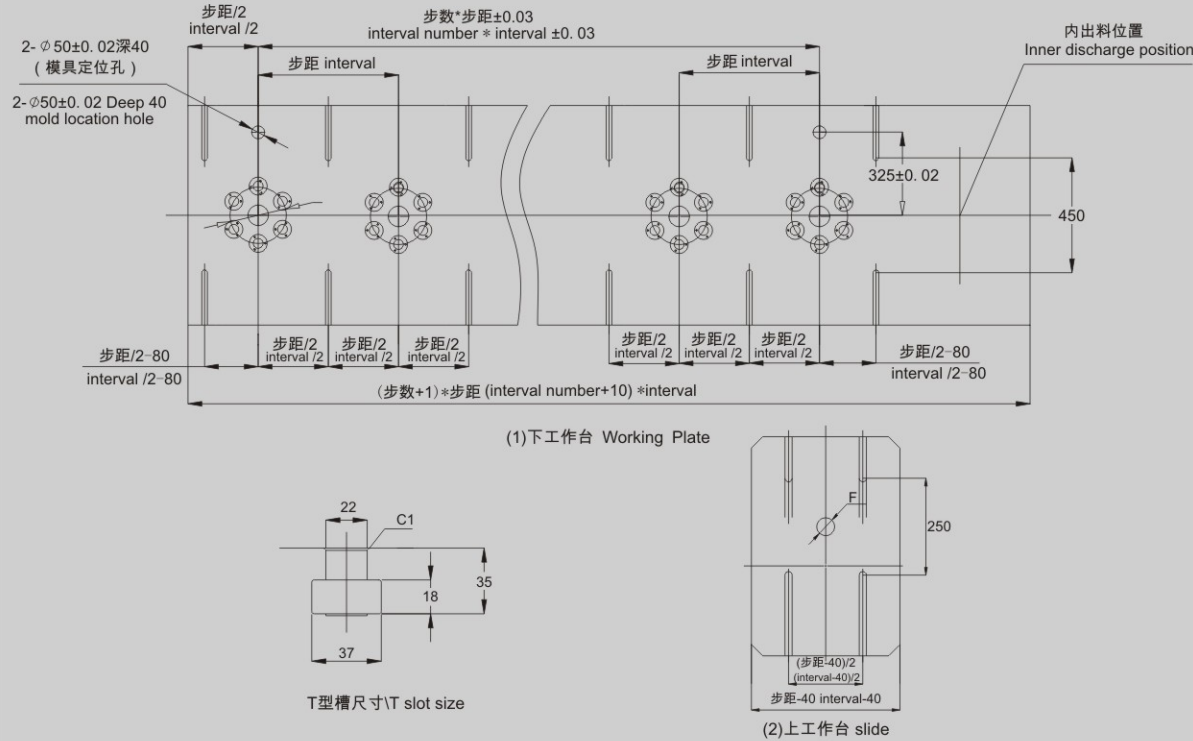
| 项目<br>Item                                      | 单位<br>Unit | HLBG-A1 | HLBG-A2 | HLBG-A3 | HLBG-A5 | HLBG-A7 | HLBG-A10 | HLBG-A15 | HLBG-A20 | HLBG-A30 |
|-------------------------------------------------|------------|---------|---------|---------|---------|---------|----------|----------|----------|----------|
| 吨位<br>Tonnage                                   | T          | 1       | 2       | 3       | 5       | 7       | 10       | 15       | 20       | 30       |
| 行程<br>stroke                                    | mm         | 110     | 110     | 110     | 110     | 110     | 110      | 110      | 110      | 110      |
| 脱料杆直径 K<br>Stripping rob diameter K             | mm         | Φ25     | Φ25     | Φ25     | Φ30     | Φ30     | Φ40      | Φ40      | Φ60      | Φ60      |
| 脱料杆中心螺纹 M<br>Stripping rob centre thread M      | mm         | M8      | M8      | M10     | M12     | M14     | M16      | M20      | M24      | M24      |
| 上工作台板中心孔直径 F<br>Center hole diameter F of slide | mm         | Φ28     | Φ28     | Φ28     | Φ32     | Φ32     | Φ42      | Φ42      | Φ62      | Φ62      |

标准配置, 实际配置可以客户要求定做  
standard configuration, the actual configuration can be customized to customer requirements



工作台板

Working Plate



液压机配置

hydraulic press configuration

| 配置          | Configuration                               | 标准<br>standard |
|-------------|---------------------------------------------|----------------|
| 电动循环润滑给油装置  | Electric circulation lubrication oil feeder | ○              |
| 手持控制器       | Handheld controller                         | ○              |
| 机械手         | Robot (manipulator)                         | ○              |
| 空气源接头(电源插座) | Air source connector (Power socket)         | ○              |
| 使用说明书       | Manual                                      | ○              |
| 维修工具及工具箱    | Maintenance tools and tools box             | ○              |
| 地脚螺栓        | Anchor screw                                | ○              |
| 模具量存储功能     | Mold storage capabilities                   | ○              |
| 模具校位装置      | Mold revise device                          | ○              |
| 机床照明装置      | Machine lighting device                     | ○              |
| 安全护罩        | Safe cover                                  | ○              |
| 检修爬梯        | Maintenance ladder                          | ○              |
| 强制冷却系统      | Forced cooling system                       | ○              |
| 伺服驱动电机油泵组   | Servo drive motor oil pump group            | ○              |

| 配置         | Configuration                              | 选配<br>Optional<br>Configuration |
|------------|--------------------------------------------|---------------------------------|
| 快速换模装置     | Mold fast change device                    | ○                               |
| "互联网+"技术售后 | "Internet + " technical after-sales        | ○                               |
| 模具识别功能     | Mold recognition capabilities              | ○                               |
| 上料机        | Feeding machine                            | ○                               |
| 误送检测装置     | Miscarriage detector device                | ○                               |
| 连续模具       | Continuous mold                            | ○                               |
| 产品出料传送装置   | Product discharging transfer               | ○                               |
| 胚料加油装置     | Raw material filling device                | ○                               |
| 胚料校正装置     | Raw material revise device                 | ○                               |
| 废料收集传送装置   | Raw materials collect and transport device | ○                               |
|            |                                            |                                 |

配置表 Configuration list



| 项目<br>Item                                | 配置<br>Configuration       | 基本款<br>Basic | 选配<br>Selection |
|-------------------------------------------|---------------------------|--------------|-----------------|
| 配件 ( Parts )                              |                           |              |                 |
| 电动润滑给油装置 Electric cycle LUB device        |                           | O            |                 |
| 空气源及喷风接头 Air Sources &Breeze Joint        |                           |              | O               |
| 冷却水源 Cooler water                         |                           |              | O               |
| 电源插座 Power outlet                         |                           |              | O               |
| 照明灯 Lighting Devices                      |                           | O            |                 |
| 滑块中缸 Slider center cylinder               |                           |              | O               |
| 液压垫 Cushion                               |                           |              | O               |
| 电液伺服 Electro-hydraulic servo              |                           |              | O               |
| 油液冷却<br>Cooler                            | 水冷 Water cooler           | O            |                 |
|                                           | 强制 Forced cooler          |              | O               |
| 安全防护<br>Safety Device                     | 前防护门 Front safety door    |              | O               |
|                                           | 光栅保护 Grating protection   |              | O               |
| 自动化装置 Automation device                   |                           |              | O               |
| 快换模装置<br>Fast speed change<br>mold device | 举模器 Mold lifter           |              | O               |
|                                           | 举模臂 Mold lifter arm       |              | O               |
|                                           | 夹模器 Mold clamp            |              | O               |
|                                           | 模具定位杆 Die positioner      |              | O               |
| 移动操纵台<br>Movable Operation<br>Device      | 脚踏 Pedal                  |              | O               |
|                                           | 双手 Both hands             |              | O               |
|                                           | 手持调模器 Hand-held modulator | O            |                 |
| 移模工作台<br>Mold movable Device              | 前移 Front moving           |              | O               |
|                                           | 后移 Rear Moving            |              | O               |
| 材料抹油装置<br>Material oiling device          | 沾油 Stained with oil       |              | O               |
|                                           | 滚油 Rolling oil            |              | O               |

| 项目<br>Item                                                 | 配置<br>Configuration | 基本款<br>Basic | 选配<br>Selection |
|------------------------------------------------------------|---------------------|--------------|-----------------|
| 功能 Function                                                |                     |              |                 |
| 模温装置 Mold TEMP device                                      |                     |              | O               |
| 模具识别装置 Mold recognition function                           |                     |              | O               |
| 油加热装置 Oil heating device                                   |                     |              | O               |
| 能耗检测装置 Energy consumption detection device                 |                     |              | O               |
| 扫描枪接口 Scanning interface                                   |                     |              | O               |
| 物联接口 Web interface                                         |                     |              | O               |
| 三色灯运转指示灯 Three-color operating indicator light             |                     | O            |                 |
|                                                            |                     |              |                 |
|                                                            |                     |              |                 |
| 系统软件 System software                                       |                     |              |                 |
| 自定义编程操作系统 Custom programming operating system              |                     |              | O               |
| 设备点检系统 Machine inspection system                           |                     |              | O               |
| 设备诊断系统 Machine diagnostic system                           |                     |              | O               |
| 智能服务平台系统 Intelligent service system                        |                     |              | O               |
| 生产信息化管理系统 Production information management system         |                     |              | O               |
| 液压垫分段比例调压系统 Cushion subsection proportional control system |                     | O            |                 |
| 模具储存量系统 Mold storage system                                |                     | O            |                 |
| 附 件 Attachment                                             |                     |              |                 |
| 地脚垫板 Anchor plate                                          |                     | O            |                 |
| 防震脚 Shockproof pads                                        |                     |              | O               |
| 顶杆 Ejector rod                                             |                     |              | O               |
| 维修工具 Maintenance tools                                     |                     | O            |                 |
| 使用说明书 Use Manual                                           |                     | O            |                 |
| 合格证明书 Certification                                        |                     | O            |                 |