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聚和智锻  
-J U S T-

## ABOUT US



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### 江苏聚和智锻科技有限公司

JIANGSU UNION SERVO TECHNOLOGY Co., Ltd.

# 企业简介

## Company Profile

现实生活中已经不缺传统的锻压装备和生产方式，设备已经不再是“傻大黑粗”的传统形象和简单功能，生产方式也早已不是人海战术了。人们自觉或不自觉的已经在追求具有人工智能、大数据、物联网和云计算等技术来实现高效、智能的生产过程。因而，一个崭新的“聚和智锻”品牌应运而生了！虽然他还很年轻，但他是由行业一批具有丰富经验的中日团队，在国家级行业资深首席专家的领衔下组建的。利用其在行业内积累的伺服技术、工艺技术的成熟经验和专业智慧，量身定制打造崭新的智能锻压装备及生产线和全面整体智能解决方案。

In today's world, traditional forging equipment and production methods are abundant. The once outdated image of equipment as "clunky, oversized, dark and rudimentary" with basic functions is a thing of the past. Similarly, labor-intensive production techniques have been replaced. Whether consciously or not, industries are increasingly adopting production processes that integrate advanced technologies such as artificial intelligence, big data, the Internet of Things (IoT), and cloud computing to achieve greater efficiency and intelligence. In response to this trend, the innovative "ZD-JUST" brand was born. Although still young, the brand is supported by a team of Chinese and Japanese professionals, led by senior national-level experts. Drawing on extensive expertise in servo technology and process optimization, the team designs cutting-edge intelligent forging equipment, custom production lines, and comprehensive smart manufacturing solutions tailored to meet industry needs.

聚和智锻立足于家电、电子和航空航天领域同时，重点瞄准汽车轻量化铝合金锻造、新能源锂电池电芯结构件、氢燃料电池金属极板和储能领域的金属精密功能结构件塑性成形的伺服锻压，立志要为客户省时、省力、省材和省成本，让客户的塑性加工过程能实现高效率、高品质、高精度和高节能，而且也可以为客户工厂现有生产方式进行诊断，提供客户工厂的精益化生产提案以及对现有传统设备进行伺服化改造等，力争最大限度的为客户提供价值和优质服务！

ZD-JUST specializes in the household appliances, electronics, and aerospace sectors while strategically focusing on lightweight aluminum alloy forging for the automotive industry, structural components for lithium-ion battery cells in new energy applications, metal bipolar plates for hydrogen fuel cells, and servo forging of precision functional metal components in the energy storage sector. The company is dedicated to helping customers save time, labor, materials, and costs, ensuring that their plastic forming processes achieve high efficiency, superior quality, precision, and energy savings. Additionally, the company provides diagnostic services to evaluate existing production methods, offers lean manufacturing proposals, and retrofits traditional equipment with advanced servo technology, maximizing value and delivering exceptional service to its clients.

年轻的聚和智锻会聚天地之人和，汲日月之精华，珍惜以前我们在不同时期分别为不同行业客户所做方案的经验教训，期待新老客户为我们提供新的平台和机会，我们会进一步去迎接更多新的挑战，随时随地接受你们对我们的检验！让我们一起携手并进为实现智能锻压赋能，做出我们各自的贡献。

Although ZD-JUST is still young, it harnesses the collective expertise of its team and the valuable lessons learned from delivering tailored solutions across diverse industries. We eagerly welcome opportunities from both new and long-standing clients to drive innovation and tackle new challenges together. You are always invited to assess our work; together, we can advance the development of intelligent forging technology. Let's collaborate to contribute to a smarter, more efficient future for the forging industry.



### ◆企业愿景 Vision:

让智能锻压成为金属塑性成形领域的得力助手  
To make intelligent forging an indispensable tool in the field of metal plastic forming.

### ◆企业使命 Mission:

为社会提供最大价值和贡献，实现员工的物质和精神双幸福  
To provide maximum value and contribute to society while promoting both material and spiritual well-being for our employees.

### ◆核心价值观 Core Values:





变频/伺服开式精密压力机
Inverter/Servo C-type precision press



产品特点 Product features:

- ◆高刚性机身，高精度六面导轨，精度满足JIS1级标准。
  - ◆高精度传动零部件，齿轮经过精密研磨加工，曲轴经过特殊处理及研磨加工，运转平稳安静。
  - ◆触摸屏上显示曲轴角度、spm等信息，人机交互便捷。
  - ◆控制系统可实现数据采集、远程维护,预留MES接口。
  - ◆伺服机采用低速大扭矩伺服电机直驱结构，控制精度高，工艺适应性强。
  - ◆伺服机配置能量管理系统，节能环保。
- ◆High-rigidity frame and high-precision six-sided guideway. The precision meets JIS level 1 standard.
- ◆High-precision transmission parts. The gears are processed by precision grinding. The crankshaft is processed by special heat treatment and grinding, ensuring smooth and quiet operation.
- ◆The crankshaft angle, spm and other information are displayed on the touch screen, providing convenient human-computer interaction.
- ◆The control system can realize data acquisition and remote maintenance, and reserve the MES interface.
- ◆The servo press adopts a direct drive structure of low-speed high-torque servo motor, which has high control precision and strong process adaptability.
- ◆The servo press is equipped with an energy management system, which is energy-saving and environmentally friendly.

标准配置 Standard configuration:

- ◆变频电机/伺服同步电机（Inverter motor/Servo synchronous motor）
- ◆湿式离合器（Wet clutch device）
- ◆油压过载保护装置（Oil pressure overload protection）
- ◆电动滑块调节装置（Electric slider adjustment）
- ◆滑块及上模平衡装置（Slider and upper die balancing device）
- ◆自动润滑装置（Automatic lubricator）
- ◆光电安全装置（Photoelectric safety device）
- ◆双回路安全保护（Double circuit safety protection）
- ◆超程检测装置（上死点检测）（Overstroke inspecting device）
- ◆预留自动化电气接口（Reserved automatic electrical interface）
- ◆触摸屏操作盘（Touch screen panel）
- ◆生产计数器（Production counter）
- ◆空气喷射器 / 空气出口 3/8B（Air injector/Air outlet 3/8B）
- ◆误送检知插头（Detection device for material misdelivery）
- ◆电源插座(五孔AC220V)（Power socket (five-hole, AC220V)）
- ◆模具照明灯（Mould area light）

选购配置 Optional configuration:

- ◆地脚防震垫(anti vibration pad)
- ◆吨位仪(Tonnage meter)
- ◆快速换模装置(Quick die exchange device)
- ◆滑块上打料装置(Slider upper feeding device)
- ◆气压式模垫装置（Air-pressure type die cushion device）
- ◆前后安全门 / 围栏 / 爬梯（Front/Back safety doors/fences/ladders）
- ◆周边自动化装置(Peripheral automation device)

变频/伺服开式精密压力机
Inverter/Servo C-type precision press

|    | 参数<br>Paramater                                                    | 型号<br>Model | 单点 Single Point        |                        |                        |                        |
|----|--------------------------------------------------------------------|-------------|------------------------|------------------------|------------------------|------------------------|
|    |                                                                    |             | ZDC1-110/<br>ZDSC1-110 | ZDC1-160/<br>ZDSC1-160 | ZDC1-200/<br>ZDSC1-200 | ZDC1-250/<br>ZDSC1-250 |
| 1  | 公称力<br>Nominal force                                               | KN          | 1100                   | 1600                   | 2000                   | 2500                   |
| 2  | 公称力行程<br>Nominal force stroke                                      | mm          | 3                      | 3                      | 3                      | 3                      |
| 3  | 滑块行程<br>Slide stroke length                                        | mm          | 180                    | 200                    | 220                    | 250                    |
| 4  | 无负荷行程次数<br>Unloaded continuous stroke number                       | SPM         | 35~70/1~70             | 30~60/1~60             | 25~50/1~50             | 20~40/1~40             |
| 5  | 最大装模高度<br>Die height                                               | mm          | 400                    | 450                    | 450                    | 500                    |
| 6  | 滑块调节量<br>Slide adjustment                                          | mm          | 90                     | 100                    | 110                    | 120                    |
| 7  | 滑块底面尺寸（左右×前后）<br>Slide area (LR*FB)                                | mm          | 910×520                | 990×580                | 1130×650               | 1250×700               |
| 8  | 工作台板尺寸（左右×前后）<br>Bolster area (LR*FB)                              | mm          | 1150×680               | 1250×760               | 1400×840               | 1500×900               |
| 9  | 喉口深度（前后）<br>Throat depth (FB)                                      | mm          | 350                    | 390                    | 430                    | 460                    |
| 10 | 允许上模最大重量<br>Maximum upper die weight                               | Kg          | 400                    | 500                    | 600                    | 700                    |
| 11 | 主电机功率（变频器ZDC1）<br>Main motor power (Inverter ZDC1)                 | Kw          | 11                     | 15                     | 19                     | 22                     |
| 12 | 伺服主电机最大扭矩（伺服机ZDSC1）<br>Maximum torque of servo motor (Servo ZDSC1) | Nm          | 4500                   | 6000                   | 9000                   | 12000                  |
|    | 参数<br>Paramater                                                    | 型号<br>Model | 双点 Double Points       |                        |                        |                        |
|    |                                                                    |             | ZDC2-160/<br>ZDSC2-160 | ZDC2-200/<br>ZDSC2-200 | ZDC2-250/<br>ZDSC2-250 | ZDC2-300/<br>ZDSC2-300 |
| 1  | 公称力<br>Nominal force                                               | KN          | 1600                   | 2000                   | 2500                   | 3000                   |
| 2  | 公称力行程<br>Nominal force stroke                                      | mm          | 3                      | 3                      | 4                      | 4                      |
| 3  | 滑块行程<br>Slide stroke length                                        | mm          | 200                    | 250                    | 250                    | 300                    |
| 4  | 无负荷行程次数<br>Unloaded continuous stroke number                       | SPM         | 30~55/1~55             | 25~45/1~45             | 20~40/1~40             | 20~35/1~35             |
| 5  | 最大装模高度<br>Die height                                               | mm          | 450                    | 500                    | 550                    | 550                    |
| 6  | 滑块调节量<br>Slide adjustment                                          | mm          | 100                    | 110                    | 120                    | 120                    |
| 7  | 滑块底面尺寸（左右×前后）<br>Slide area (LR*FB)                                | mm          | 1500×580               | 1850×650               | 2100×700               | 2100×800               |
| 8  | 工作台板尺寸（左右×前后）<br>Bolster area (LR*FB)                              | mm          | 2040×760               | 2420×840               | 2700×920               | 2700×940               |
| 9  | 喉口深度（前后）<br>Throat depth (FB)                                      | mm          | 390                    | 430                    | 470                    | 480                    |
| 10 | 允许上模最大重量<br>Maximum upper die weight                               | Kg          | 800                    | 1200                   | 1600                   | 1800                   |
| 11 | 主电机功率（变频器ZDC2）<br>Main motor power (Inverter ZDC2)                 | Kw          | 15                     | 22                     | 22                     | 30                     |
| 12 | 伺服主电机最大扭矩（伺服机ZDSC2）<br>Maximum torque of servo motor (Servo ZDSC2) | Nm          | 6000                   | 9000                   | 12000                  | 15000                  |

※The above are standard specifications or actual performance data, which can be adjusted according to customer needs.

应用产品 Application products:



# 变频/伺服闭式精密压力机

Inverter/Servo straight precision press



### 产品特点 Product features:

- ◆高刚性机身，高精度六面导轨，精度满足JIS1级标准。
- ◆高精度传动零部件，齿轮经过精密研磨加工，曲轴经过特殊热处理及研磨加工，运转平稳安静。
- ◆触摸屏上显示曲轴角度、spm等信息，人机交互便捷。
- ◆控制系统可实现数据采集、远程维护，预留MES接口。
- ◆伺服机采用低速大扭矩伺服电机直驱结构，控制精度高，工艺适应性强。
- ◆伺服机配置能量管理系统，节能环保。
- ◆High-rigidity frame and high-precision six-sided guideway. The precision meets JIS level 1 standard.
- ◆High-precision transmission parts. The gears are processed by precision grinding. The crankshaft is processed by special heat treatment and grinding, ensuring smooth and quiet operation.
- ◆The crankshaft angle, spm and other information are displayed on the touch screen, providing convenient human-computer interaction.
- ◆The control system can realize data acquisition and remote maintenance, and reserve the MES interface.
- ◆The servo press adopts a direct drive structure of low-speed high-torque servo motor, which has high control precision and strong process adaptability.
- ◆The servo press is equipped with an energy management system, which is energy-saving and environmentally friendly.

### 标准配置 Standard configuration:

- ◆变频电机/伺服同步电机 ( Inverter motor/Servo synchronous motor )
- ◆湿式离合器 ( Wet clutch device )
- ◆油压过载保护装置 ( Oil pressure overload protection )
- ◆电动滑块调节装置 ( Electric slider adjustment )
- ◆滑块及上模平衡装置 ( Slider and upper die balancing device )
- ◆自动润滑装置 ( Automatic lubricator )
- ◆光电安全装置 ( Photoelectric safety device )
- ◆双回路安全保护 ( Double circuit safety protection )
- ◆超程检测装置 (上死点检测) ( Overstroke inspecting device )
- ◆预留自动化电气接口 ( Reserved automatic electrical interface )
- ◆触摸屏操作盘 ( Touch screen panel )
- ◆生产计数器 ( Production counter )
- ◆空气喷射器 / 空气出口 3/8B ( Air injector/Air outlet 3/8B )
- ◆误送检插头 ( Detection device for material misdelivery )
- ◆电源插座(五孔AC220V) ( Power socket (five-hole, AC220V) )
- ◆模具照明灯 ( Mould area light )

### 选购配置 Optional configuration:

- ◆地脚防震垫(anti vibration pad)
- ◆吨位仪(Tonnage meter)
- ◆快速换模装置(Quick die exchange device)
- ◆滑块上打料装置(Slider upper feeding device)
- ◆气压式模垫装置 (Air-pressure type die cushion device)
- ◆前后安全门 / 围栏 / 爬梯 (Front/Back safety doors/fences/ladders)
- ◆周边自动化装置(Peripheral automation device)

| 变频/伺服闭式精密压力机<br>Inverter/Servo straight precision press |                                                                       |                        |                        |                        |                        |            |
|---------------------------------------------------------|-----------------------------------------------------------------------|------------------------|------------------------|------------------------|------------------------|------------|
| 参数<br>Paramater                                         | 型号<br>Model                                                           | 单点 Single Point        |                        |                        |                        |            |
|                                                         |                                                                       | ZDQ1-110/<br>ZDSQ1-110 | ZDQ1-160/<br>ZDSQ1-160 | ZDQ1-200/<br>ZDSQ1-200 | ZDQ1-300/<br>ZDSQ1-300 |            |
| 1                                                       | 公称力<br>Nominal force                                                  | KN                     | 1100                   | 1600                   | 2000                   | 3000       |
| 2                                                       | 公称力行程<br>Nominal force stroke                                         | mm                     | 6                      | 6                      | 6                      | 6          |
| 3                                                       | 滑块行程<br>Slide stroke length                                           | mm                     | 180                    | 200                    | 250                    | 300        |
| 4                                                       | 无负荷行程次数<br>Unloaded continuous stroke number                          | SPM                    | 35~70/1~70             | 30~60/1~60             | 25~50/1~50             | 20~40/1~40 |
| 5                                                       | 最大装模高度<br>Die height                                                  | mm                     | 350                    | 400                    | 450                    | 550        |
| 6                                                       | 滑块调节量<br>Slide adjustment                                             | mm                     | 90                     | 100                    | 110                    | 120        |
| 7                                                       | 滑块底面尺寸 (左右×前后)<br>Slide area (LR*FB)                                  | mm                     | 800×520                | 900×580                | 1000×650               | 1200×850   |
| 8                                                       | 工作台板尺寸 (左右×前后)<br>Bolster area (LR*FB)                                | mm                     | 1000×680               | 1100×760               | 1200×840               | 1400×1000  |
| 9                                                       | 侧面开口尺寸 (前后×上下)<br>Side opening(FB*H)                                  | mm                     | 680×350                | 760×450                | 800×450                | 1000×550   |
| 10                                                      | 允许上模最大重量<br>Maximum upper die weight                                  | Kg                     | 400                    | 500                    | 600                    | 800        |
| 11                                                      | 主电机功率 (变频器ZDQ1)<br>Main motor power ( Inverter ZDQ1 )                 | Kw                     | 11                     | 15                     | 22                     | 30         |
| 12                                                      | 伺服主电机最大扭矩 (伺服机ZDSQ1)<br>Maximum torque of servo motor ( Servo ZDSQ1 ) | Nm                     | 6000                   | 9000                   | 12000                  | 16000      |
| 参数<br>Paramater                                         | 型号<br>Model                                                           | 双点 Double Points       |                        |                        |                        |            |
|                                                         |                                                                       | ZDQ2-200/<br>ZDSQ2-200 | ZDQ2-300/<br>ZDSQ2-300 | ZDQ2-400/<br>ZDSQ2-400 | ZDQ2-500/<br>ZDSQ2-500 |            |
| 1                                                       | 公称力<br>Nominal force                                                  | KN                     | 2000                   | 3000                   | 4000                   | 5000       |
| 2                                                       | 公称力行程<br>Nominal force stroke                                         | mm                     | 6                      | 6                      | 6                      | 6          |
| 3                                                       | 滑块行程<br>Slide stroke length                                           | mm                     | 250                    | 300                    | 350                    | 350        |
| 4                                                       | 无负荷行程次数<br>Unloaded continuous stroke number                          | SPM                    | 25~50/1~50             | 20~40/1~40             | 20~35/1~35             | 15~30/1~30 |
| 5                                                       | 最大装模高度<br>Die height                                                  | mm                     | 500                    | 550                    | 650                    | 650        |
| 6                                                       | 滑块调节量<br>Slide adjustment                                             | mm                     | 120                    | 120                    | 120                    | 120        |
| 7                                                       | 滑块底面尺寸 (左右×前后)<br>Slide area (LR*FB)                                  | mm                     | 1850×750               | 2400×900               | 2500×1000              | 2600×1100  |
| 8                                                       | 工作台板尺寸 (左右×前后)<br>Bolster area (LR*FB)                                | mm                     | 2200×940               | 2500×1000              | 2700×1100              | 2800×1200  |
| 9                                                       | 侧面开口尺寸 (前后×上下)<br>Side opening(FB*H)                                  | mm                     | 900×600                | 900×600                | 1100×550               | 1200×550   |
| 10                                                      | 允许上模最大重量<br>Maximum upper die weight                                  | Kg                     | 1100                   | 1800                   | 2200                   | 2500       |
| 11                                                      | 主电机功率 (变频器ZDQ2)<br>Main motor power ( Inverter ZDQ2 )                 | Kw                     | 22                     | 30                     | 37                     | 45         |
| 12                                                      | 伺服主电机最大扭矩 (伺服机ZDSQ2)<br>Maximum torque of servo motor ( Servo ZDSQ2 ) | Nm                     | 12000                  | 16000                  | 22000                  | 27000      |

※The above are standard specifications or actual performance data, which can be adjusted according to customer needs. ※以上为标准规格或实际业绩数据，可根据客户需求进行调整对应。

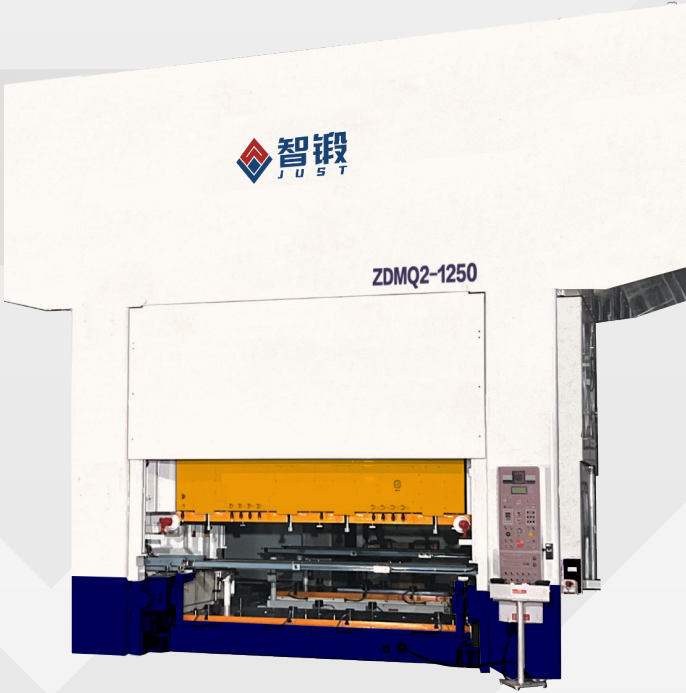
### 应用产品 Application products:





# 变频/伺服多工位精密压力机

Inverter/Servo transfer precision press



### 产品特点 Product features:

- ◆高刚性机身，高精度四角八面长导轨，精度满足JIS1级标准。
- ◆高精度传动零部件，齿轮经过精密研磨加工，曲轴经过特殊热处理及研磨加工，运转平稳安静。
- ◆采用左右横置曲轴结构，连杆间距大，抗偏载能力强。
- ◆触摸屏上显示曲轴角度、spm等信息，人机交互便捷。
- ◆控制系统可实现数据采集、远程维护,预留MES接口。

- ◆High-rigidity frame and high-precision eight-sided long guideway. The precision meets JIS level 1 standard.
- ◆High-precision transmission parts. The gears are processed by precision grinding. The crankshaft is processed by special heat treatment and grinding, ensuring smooth and quiet operation.
- ◆Adopt a left-right transverse crankshaft structure. The connecting rod spacing is large, and it has strong resistance to eccentric loads.
- ◆The crankshaft angle, spm and other information are displayed on the touch screen, providing convenient human-computer interaction.
- ◆The control system can realize data acquisition and remote maintenance, and reserve the MES interface.

### 标准配置 Standard configuration:

- ◆变频电机/伺服同步电机 ( Inverter motor/Servo synchronous motor )
- ◆湿式离合器 ( Wet clutch device )
- ◆油压过载保护装置 ( Oil pressure overload protection )
- ◆自动稀油循环润滑装置 ( Automatic oil circulation lubricator )
- ◆滑块及上模平衡装置 ( Slider and upper die balancing device )
- ◆自动润滑装置 ( Automatic lubricator )
- ◆光电安全装置 ( Photoelectric safety device )
- ◆双回路安全保护 ( Double circuit safety protection )
- ◆超程检测装置 (上死点检测) ( Overstroke inspecting device )
- ◆预留自动化电气接口 ( Reserved automatic electrical interface )
- ◆触摸屏操作盘 ( Touch screen panel )
- ◆生产计数器 ( Production counter )
- ◆空气喷射器 / 空气出口 3/8B ( Air injector/Air outlet 3/8B )
- ◆误送检知插头 ( Detection device for material misdelivery )
- ◆电源插座(五孔AC220V) ( Power socket (five-hole, AC220V) )
- ◆模具照明灯 ( Mould area light )

### 选购配置 Optional configuration:

- ◆地脚防震垫(anti vabrication pad)
- ◆吨位仪(Tonnage meter)
- ◆快速换模装置(Quick die exchange device)
- ◆滑块上打料装置(Slider upper feeding device)
- ◆气压式模垫装置 (Air-pressure type die cushion device)
- ◆前后安全门 / 围栏 / 爬梯 (Front/Back safety doors/fences/ladders)
- ◆2次元/3次元多工位机械手(2D/3D transfer manipulator)
- ◆周边自动化装置(Peripheral automation device)

| 变频/伺服多工位精密压力机<br>Inverter/Servo transfer precision press |                                                                         |                            |                          |                          |                          |                          |                          |            |
|----------------------------------------------------------|-------------------------------------------------------------------------|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------|
| 参数<br>Paramater                                          | 型号<br>Model                                                             | 闭式双点 Straight double point |                          |                          |                          |                          |                          |            |
|                                                          |                                                                         | ZDMQ2-160/<br>ZDSMQ2-160   | ZDMQ2-250/<br>ZDSMQ2-250 | ZDMQ2-300/<br>ZDSMQ2-300 | ZDMQ2-400/<br>ZDSMQ2-400 | ZDMQ2-600/<br>ZDSMQ2-600 | ZDMQ2-800/<br>ZDSMQ2-800 |            |
| 1                                                        | 公称力<br>Nominal force                                                    | KN                         | 1600                     | 2500                     | 3000                     | 4000                     | 6000                     | 8000       |
| 2                                                        | 公称力行程<br>Nominal force stroke                                           | mm                         | 10                       | 10                       | 10                       | 10                       | 10                       | 13         |
| 3                                                        | 滑块行程<br>Slide stroke length                                             | mm                         | 200                      | 250                      | 300                      | 300                      | 400                      | 600        |
| 4                                                        | 无负荷行程次数<br>Unloaded continuous stroke number                            | SPM                        | 35~70/1~70               | 30~60/1~60               | 25~50/1~50               | 25~45/1~45               | 20~40/1~40               | 15~25/1~25 |
| 5                                                        | 最大装模高度<br>Die height                                                    | mm                         | 550                      | 600                      | 700                      | 800                      | 900                      | 1100       |
| 6                                                        | 滑块调节量<br>Slide adjustment                                               | mm                         | 100                      | 100                      | 120                      | 120                      | 120                      | 500        |
| 7                                                        | 滑块底面尺寸 (左右×前后)<br>Slide area (LR×FB)                                    | mm                         | 2400×600                 | 2900×700                 | 3200×800                 | 3400×900                 | 3700×1100                | 6000×1800  |
| 8                                                        | 工作台面尺寸 (左右×前后)<br>Bolster area (LR×FB)                                  | mm                         | 2400×700                 | 2900×800                 | 3200×900                 | 3400×1000                | 3700×1200                | 6000×1800  |
| 9                                                        | 侧面开口尺寸 (前后×上下)<br>Side opening(FB×H)                                    | mm                         | 900×450                  | 900×500                  | 1000×550                 | 1250×600                 | 1300×700                 | 2500×1200  |
| 10                                                       | 允许上模最大重量<br>Maximum upper die weight                                    | Kg                         | 2000                     | 2500                     | 3000                     | 3500                     | 4000                     | 15000      |
| 11                                                       | 主电机功率 (变频器ZDMQ2)<br>Main motor power ( Inverter ZDMQ2 )                 | Kw                         | 30                       | 45                       | 55                       | 55                       | 75                       | 132        |
| 12                                                       | 伺服主电机最大扭矩 (伺服机ZDSMQ2)<br>Maximum torque of servo motor ( Servo ZDSMQ2 ) | Nm                         | 12000                    | 15000                    | 16000                    | 22000                    | 35000                    | 2*22000    |
| 13                                                       | 工位数<br>Station number                                                   | /                          | 17                       | 19                       | 15                       | 13                       | 13                       | /          |
| 14                                                       | 步距<br>Pitch                                                             | mm                         | 130                      | 150                      | 200                      | 250                      | 280                      | /          |
| 15                                                       | 滑块上打料能力 (单工位)<br>Slide knockout force                                   | KN                         | 5                        | 6                        | 8                        | 10                       | 10                       | /          |
| 16                                                       | 滑块上打料行程<br>Slide knockout stroke                                        | mm                         | 80                       | 100                      | 120                      | 120                      | 140                      | /          |
| 17                                                       | 缓冲垫能力 (单工位)<br>Cushion force                                            | KN                         | 20                       | 30                       | 35                       | 40                       | 50                       | /          |
| 18                                                       | 缓冲垫行程<br>Cushion stroke                                                 | mm                         | 150                      | 180                      | 200                      | 200                      | 230                      | /          |

※以上为标准规格或实际业绩数据，可根据客户需求进行调整对应。  
※The above are standard specifications or actual performance data, which can be adjusted according to customer needs.

### 应用产品 Application products:



变频/伺服肘节精密压力机
Inverter/Servo Knuckle precision press



产品特点 Product features:

- ◆高刚性机身，高精度四角八面长导轨，精度满足JIS1级标准。
- ◆高精度传动零部件，齿轮经过精密研磨加工，运转平稳安静。
- ◆采用变形肘节传动结构，传动刚性高，下死点附近成型速度慢。
- ◆触摸屏上显示曲轴角度、spm等信息，人机交互便捷。
- ◆控制系统可实现数据采集、远程维护,预留MES接口。
- ◆伺服机采用低速大扭矩伺服电机直驱结构，控制精度高，工艺适应性强。
- ◆伺服机配置能量管理系统，节能环保。

- ◆High-rigidity frame and high-precision eight-sided long guideway. The precision meets JIS level 1 standard.
- ◆High-precision transmission parts. The gears are processed by precision grinding. Ensuring smooth and quiet operation.
- ◆Adopt a deformed Knuckle transmission structure. The transmission rigidity is high, and the forming speed near the bottom dead point is slow.
- ◆The crankshaft angle, spm and other information are displayed on the touch screen, providing convenient human-computer interaction.
- ◆The control system can realize data acquisition and remote maintenance, and reserve the MES interface.
- ◆The servo press adopts a direct drive structure of low-speed high-torque servo motor, which has high control precision and strong process adaptability.
- ◆The servo press is equipped with an energy management system, which is energy-saving and environmentally friendly.

标准配置 Standard configuration:

- ◆变频电机/伺服同步电机 ( Inverter motor/Servo synchronous motor )
- ◆湿式离合器 ( Wet clutch device )
- ◆油压过载保护装置 ( Oil pressure overload protection )
- ◆自动稀油循环润滑装置 ( Automatic oil circulation lubricator )
- ◆滑块及上模平衡装置 ( Slider and upper die balancing device )
- ◆自动润滑装置 ( Automatic lubricator )
- ◆光电安全装置 ( Photoelectric safety device )
- ◆双回路安全保护 ( Double circuit safety protection )
- ◆超程检测装置 (上死点检测) ( Overstroke inspecting device )
- ◆预留自动化电气接口 ( Reserved automatic electrical interface )
- ◆触摸屏操作盘 ( Touch screen panel )
- ◆生产计数器 ( Production counter )
- ◆空气喷射器 / 空气出口 3/8B ( Air injector/Air outlet 3/8B )
- ◆误送检知插头 ( Detection device for material misdelivery )
- ◆电源插座(五孔AC220V) ( Power socket (five-hole, AC220V) )
- ◆模具照明灯 ( Mould area light )

选购配置 Optional configuration:

- ◆地脚防震垫(anti vabrication pad)
- ◆吨位仪(Tonnage meter)
- ◆快速换模装置(Quick die exchange device)
- ◆滑块上打料装置(Slider upper feeding device)
- ◆气压式模垫装置 (Air-pressure type die cushion device)
- ◆前后安全门 / 围栏 / 爬梯 (Front/Back safety doors/fences/ladders)
- ◆周边自动化装置(Peripheral automation device)

| 变频/伺服肘节精密压力机<br>Inverter/Servo knuckle precision press |                                                                   |  |             |                        |                        | 盖板冲压专用变频/伺服肘节<br>双点精密压力机<br>Inverter/Servo Knuckle double point precision press<br>for cover plate stamping |                        |                        |                        |                          |                          |
|--------------------------------------------------------|-------------------------------------------------------------------|--|-------------|------------------------|------------------------|-------------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|--------------------------|--------------------------|
|                                                        | 参数<br>Paramater                                                   |  | 型号<br>Model | 单点 Single Point        |                        |                                                                                                             |                        | ZDK2-600/<br>ZDSK2-600 | ZDK2-800/<br>ZDSK2-800 | ZDK2-1000/<br>ZDSK2-1000 | ZDK2-1250/<br>ZDSK2-1250 |
|                                                        |                                                                   |  |             | ZDK1-160/<br>ZDSK1-160 | ZDK1-200/<br>ZDSK1-200 | ZDK1-300/<br>ZDSK1-300                                                                                      | ZDK1-400/<br>ZDSK1-400 |                        |                        |                          |                          |
| 1                                                      | 公称力<br>Nominal force                                              |  | KN          | 1600                   | 2000                   | 3000                                                                                                        | 4000                   | 6000                   | 8000                   | 10000                    | 12500                    |
| 2                                                      | 公称力行程<br>Nominal force stroke                                     |  | mm          | 6                      | 6                      | 7                                                                                                           | 7                      | 3                      | 3                      | 4                        | 4                        |
| 3                                                      | 滑块行程<br>Slide stroke length                                       |  | mm          | 180                    | 200                    | 200                                                                                                         | 250                    | 80                     | 80                     | 80                       | 80                       |
| 4                                                      | 无负荷行程次数<br>Unloaded continuous stroke number                      |  | SPM         | 40~80/<br>1~80         | 35~70/<br>1~70         | 35~70/<br>1~70                                                                                              | 30~60/<br>1~60         | 55~110/<br>1~110       | 55~110/<br>1~110       | 40~80/<br>1~80           | 40~80/<br>1~80           |
| 5                                                      | 最大装模高度<br>Die height                                              |  | mm          | 400                    | 450                    | 450                                                                                                         | 500                    | 500                    | 500                    | 550                      | 550                      |
| 6                                                      | 滑块调节量<br>Slide adjustment                                         |  | mm          | 90                     | 100                    | 100                                                                                                         | 100                    | 100                    | 100                    | 100                      | 100                      |
| 7                                                      | 滑块底面尺寸（左右×前后）<br>Slide area (LR*FB)                               |  | mm          | 700×600                | 750×700                | 800×750                                                                                                     | 1000×750               | 2300×1000              | 2300×1000              | 2500×1200                | 2500×1200                |
| 8                                                      | 工作台板尺寸（左右×前后）<br>Bolster area (LR*FB)                             |  | mm          | 700×700                | 750×750                | 800×800                                                                                                     | 1000×800               | 2300×1000              | 2300×1000              | 2500×1200                | 2500×1200                |
| 9                                                      | 侧面开口尺寸（前后×上下）<br>Side opening(FB*H)                               |  | mm          | 500×400                | 500×400                | 600×400                                                                                                     | 700×450                | 700×500                | 700×500                | 800×550                  | 800×550                  |
| 10                                                     | 允许上模最大重量<br>Maximum upper die weight                              |  | Kg          | 600                    | 700                    | 800                                                                                                         | 1000                   | 2500                   | 2500                   | 3500                     | 3500                     |
| 11                                                     | 主电机功率（变频器ZDK1）<br>Main motor power（Inverter ZDK1）                 |  | Kw          | 19                     | 22                     | 30                                                                                                          | 37                     | 55                     | 75                     | 90                       | 110                      |
| 12                                                     | 伺服主电机最大扭矩（伺服机ZDSK1）<br>Maximum torque of servo motor（Servo ZDSK1） |  | Nm          | 6000                   | 7500                   | 12000                                                                                                       | 16000                  | 9000                   | 12000                  | 2*9000                   | 2*12000                  |

| 变频/伺服肘节精密压力机<br>Inverter/Servo knuckle precision press |                                                                           |     |                |                        |                        |                        |                        |                        |                          |                          |                          |
|--------------------------------------------------------|---------------------------------------------------------------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|------------------------|--------------------------|--------------------------|--------------------------|
|                                                        | 参数<br>Paramater                                                           |     | 型号<br>Model    | 双点 double points       |                        |                        |                        |                        |                          |                          |                          |
|                                                        |                                                                           |     |                | ZDK2-200/<br>ZDSK2-200 | ZDK2-300/<br>ZDSK2-300 | ZDK2-400/<br>ZDSK2-400 | ZDK2-600/<br>ZDSK2-600 | ZDK2-800/<br>ZDSK2-800 | ZDK2-1000/<br>ZDSK2-1000 | ZDK2-1250/<br>ZDSK2-1250 | ZDK2-1600/<br>ZDSK2-1600 |
| 1                                                      | 公称力<br>Nominal force                                                      | KN  | 2000           | 3000                   | 4000                   | 6000                   | 8000                   | 10000                  | 12500                    | 16000                    | 20000                    |
| 2                                                      | 公称力行程<br>Nominal force stroke                                             | mm  | 6              | 7                      | 7                      | 7                      | 7                      | 7                      | 7                        | 10                       | 10                       |
| 3                                                      | 滑块行程<br>Slide stroke length                                               | mm  | 200            | 200                    | 250                    | 280                    | 300                    | 350                    | 350                      | 400                      | 400                      |
| 4                                                      | 无负荷行程次数<br>Unloaded continuous stroke number                              | SPM | 35~70/<br>1~70 | 35~70/<br>1~70         | 30~60/<br>1~60         | 30~55/<br>1~55         | 25~50/<br>1~50         | 25~45/<br>1~45         | 25~45/<br>1~45           | 20~35/<br>1~35           | 20~35/<br>1~35           |
| 5                                                      | 最大装模高度<br>Die height                                                      | mm  | 500            | 550                    | 600                    | 700                    | 800                    | 1000                   | 1000                     | 1200                     | 1200                     |
| 6                                                      | 滑块调节量<br>Slide adjustment                                                 | mm  | 70             | 70                     | 100                    | 100                    | 100                    | 200                    | 200                      | 300                      | 300                      |
| 7                                                      | 滑块底面尺寸（左右×前后）<br>Slide area (LR*FB)                                       | mm  | 1500×800       | 1800×900               | 2200×1000              | 2500×1100              | 2800×1200              | 4000×1400              | 4500×1500                | 5000×1600                | 5500×1700                |
| 8                                                      | 工作台板尺寸（左右×前后）<br>Bolster area (LR*FB)                                     | mm  | 1500×900       | 1800×1000              | 2200×1100              | 2500×1200              | 2800×1300              | 4000×1500              | 4500×1600                | 5000×1700                | 5500×1800                |
| 9                                                      | 侧面开口尺寸（前后×上下）<br>Side opening(FB*H)                                       | mm  | 600×450        | 600×500                | 700×550                | 700×600                | 700×700                | 1500×800               | 1500×800                 | 1700×1000                | 1700×1000                |
| 10                                                     | 允许上模最大重量<br>Maximum upper die weight                                      | Kg  | 1500           | 2000                   | 2500                   | 3000                   | 4000                   | 6000                   | 8000                     | 10000                    | 12000                    |
| 11                                                     | 主电机功率（变频器ZDK2）<br>Main motor power（Inverter ZDK2）                         | Kw  | 22             | 30                     | 37                     | 55                     | 75                     | 132                    | 160                      | 220                      | 280                      |
| 12                                                     | 伺服主电机最大扭矩<br>（伺服机ZDSK2）<br>Maximum torque of servo motor<br>（Servo ZDSK2） | Nm  | 7500           | 12000                  | 16000                  | 2*12000                | 2*16000                | 2*22000                | 2*27000                  | 2*35000                  | 4*22000                  |

※以上为标准规格或实际业绩数据，可根据客户需求进行调整对应。
※The above are standard specifications or actual performance data, which can be adjusted according to customer needs.

应用产品 Application products:





变频/伺服冷温精锻压力机
Inverter/Servo cold&warm precision forging press



产品特点 Product features:
◆高刚性机身（标准1/10000），高精度四角八面长导轨，精度满足JIS1级标准。
◆高精密传动零部件，齿轮经过精密研磨加工，运转平稳安静。
◆TK系列采用变形肘杆传动结构，传动刚性高，下死点附近成型速度慢，保压时间长。
◆TL系列采用连杆传动机构，压机行程大，滑块下压成型速度均匀。
◆触摸屏上显示曲轴角度、spm等信息，人机交互便捷。
◆控制系统可实现数据采集、远程维护,预留MES接口。
◆High-rigidity frame（standard 1/10000）and high-precision eight-sided long guideway. The precision meets JIS level 1 standard.
◆High-precision transmission parts. The gears are processed by precision grinding. Ensuring smooth and quiet operation.
◆The TK series adopts a deformed knuckle bar transmission structure. It has high transmission rigidity. The forming speed near the bottom dead point is slow and the holding time is long.
◆The TL series adopts a connecting rod transmission mechanism. The press stroke is large, and the downward forming speed of the slider is uniform.
◆The crankshaft angle, spm and other information are displayed on the touch screen, providing convenient human-computer interaction.
◆The control system can realize data acquisition and remote maintenance, and reserve the MES interface.

- 标准配置 Standard configuration:
- ◆变频电机/伺服同步电机（Inverter motor/Servo synchronous motor）
  - ◆湿式离合器（Wet clutch device）
  - ◆油压过载保护装置（Oil pressure overload protection）
  - ◆自动稀油循环润滑装置（Automatic oil circulation lubricator）
  - ◆滑块及上模平衡装置（Slider and upper die balancing device）
  - ◆机械式下顶料装置（Bolster mechanical ejector）
  - ◆自动润滑装置（Automatic lubricator）
  - ◆光电安全装置（Photoelectric safety device）
  - ◆双回路安全保护（Double circuit safety protection）
  - ◆超程检测装置(上死点检测)（Overstroke inspecting device）
  - ◆预留自动化电气接口（Reserved automatic electrical interface）
  - ◆触摸屏操作盘（Touch screen panel）
  - ◆生产计数器（Production counter）
  - ◆空气喷射器 / 空气出口 3/8B（Air injector/Air outlet 3/8B）
  - ◆误送检知插头（Detection device for material misdelivery）
  - ◆电源插座(五孔AC220V)（Power socket (five-hole, AC220V)）
  - ◆前后安全门(Front/Back safety door)
  - ◆模具照明灯（Mould area light）
  - ◆吨位仪(Tonnage meter)

- 选购配置 Optional configuration:
- ◆地脚防震垫(anti vabrication pad)
  - ◆快速换模装置(Quick die exchange device)
  - ◆滑块上打料装置(Slider upper feeding device)
  - ◆气压式模垫装置(Air-pressure type die cushion device)
  - ◆3次元多工位机械手(3D transfer manipulator)
  - ◆周边自动化装置(Peripheral automation device)

应用产品 Application products:

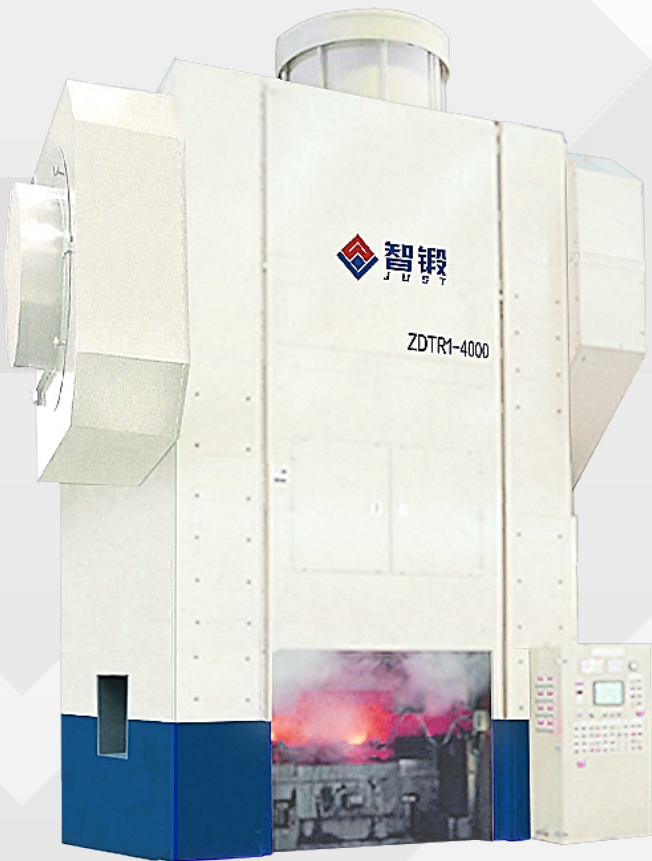


| 变频/伺服冷温精锻压力机<br>Inverter/Servo cold&warm precision forging press |                                                                         |     |             |                          |                          |                          |                            |                            |                            |
|------------------------------------------------------------------|-------------------------------------------------------------------------|-----|-------------|--------------------------|--------------------------|--------------------------|----------------------------|----------------------------|----------------------------|
|                                                                  | 参数<br>Paramater                                                         |     | 型号<br>Model | 肘杆式 knuckle              |                          |                          |                            |                            |                            |
|                                                                  |                                                                         |     |             | ZDTK1-400/<br>ZDSTK1-400 | ZDTK1-650/<br>ZDSTK1-650 | ZDTK1-800/<br>ZDSTK1-800 | ZDTK1-1000/<br>ZDSTK1-1000 | ZDTK1-1250/<br>ZDSTK1-1250 | ZDTK1-1600/<br>ZDSTK1-1600 |
| 1                                                                | 公称力<br>Nominal force                                                    | KN  | 4000        | 6500                     | 8000                     | 10000                    | 12500                      | 16000                      | 20000                      |
| 2                                                                | 公称力行程<br>Nominal force stroke                                           | mm  | 7           | 7                        | 10                       | 10                       | 13                         | 13                         | 13                         |
| 3                                                                | 滑块行程<br>Slide stroke length                                             | mm  | 200         | 250                      | 250                      | 250                      | 250                        | 230                        | 230                        |
| 4                                                                | 无负荷行程次数<br>Unloaded continuous stroke number                            | SPM | 25~50/1~50  | 20~45/1~45               | 20~40/1~40               | 20~40/1~40               | 15~35/1~35                 | 15~30/1~30                 | 15~30/1~30                 |
| 5                                                                | 最大装模高度<br>Die height                                                    | mm  | 450         | 600                      | 650                      | 650                      | 680                        | 700                        | 700                        |
| 6                                                                | 滑块调节量<br>Slide adjustment                                               | mm  | 50          | 50                       | 50                       | 50                       | 50                         | 50                         | 50                         |
| 7                                                                | 滑块底面尺寸（左右×前后）<br>Slide area (LR*FB)                                     | mm  | 700×500     | 800×700                  | 900×800                  | 1000×900                 | 1200×1000                  | 1300×1100                  | 1300×1100                  |
| 8                                                                | 工作台板尺寸（左右×前后）<br>Bolster area (LR*FB)                                   | mm  | 700×600     | 800×700                  | 900×800                  | 1000×900                 | 1200×1000                  | 1300×1100                  | 1300×1100                  |
| 9                                                                | 侧面开口尺寸（前后×上下）<br>Side opening(FB*H)                                     | mm  | 500×450     | 600×600                  | 700×650                  | 800×650                  | 900×680                    | 900×700                    | 950×700                    |
| 10                                                               | 允许上模最大重量<br>Maximum upper die weight                                    | Kg  | 500         | 750                      | 800                      | 800                      | 1500                       | 2500                       | 2500                       |
| 11                                                               | 底座顶料装置能力<br>Bolster ejector force                                       | KN  | 240         | 350                      | 500                      | 600                      | 600                        | 650                        | 700                        |
| 12                                                               | 底座顶料装置行程<br>Bolster ejector stroke                                      | mm  | 100         | 100                      | 110                      | 110                      | 110                        | 110                        | 110                        |
| 13                                                               | 工位数量<br>Station number                                                  | 个   | 3           | 3                        | 3                        | 3                        | 3                          | 3                          | 3                          |
| 14                                                               | 步距<br>Pitch                                                             | mm  | 200         | 260                      | 260                      | 260                      | 300                        | 300/350                    | 300/350                    |
| 15                                                               | 主电机功率（变频器ZDTK1）<br>Main motor power (Inverter ZDTK1)                    | Kw  | 37          | 45                       | 90                       | 110                      | 160                        | 200                        | 250                        |
| 16                                                               | 伺服主电机最大扭矩（伺服机ZDSTK1）<br>Maximum torque of servo motor<br>(Servo ZDSTK1) | Nm  | 15000       | 22000                    | 27000                    | 2*18000                  | 2*22000                    | 2*27000                    | 2*35000                    |
|                                                                  | 参数<br>Paramater                                                         |     | 型号<br>Model | 连杆式 link                 |                          |                          |                            |                            |                            |
|                                                                  |                                                                         |     |             | ZDTL1-400/<br>ZDSTL1-400 | ZDTL1-650/<br>ZDSTL1-650 | ZDTL1-800/<br>ZDSTL1-800 | ZDTL1-1000/<br>ZDSTL1-1000 | ZDTL1-1250/<br>ZDSTL1-1250 | ZDTL1-1600/<br>ZDSTL1-1600 |
| 1                                                                | 公称力<br>Nominal force                                                    | KN  | 4000        | 6500                     | 8000                     | 10000                    | 12500                      | 16000                      | 20000                      |
| 2                                                                | 公称力行程<br>Nominal force stroke                                           | mm  | 10          | 15                       | 25                       | 25                       | 25                         | 25                         | 25                         |
| 3                                                                | 滑块行程<br>Slide stroke length                                             | mm  | 400         | 400                      | 400                      | 400                      | 400                        | 400                        | 500                        |
| 4                                                                | 无负荷行程次数<br>Unloaded continuous stroke number                            | SPM | 20~40/1~40  | 15~30/1~30               | 15~30/1~30               | 15~30/1~30               | 15~30/1~30                 | 15~25/1~25                 | 15~25/1~25                 |
| 5                                                                | 最大装模高度<br>Die height                                                    | mm  | 800         | 900                      | 1000                     | 1100                     | 1200                       | 1300                       | 1300                       |
| 6                                                                | 滑块调节量<br>Slide adjustment                                               | mm  | 50          | 50                       | 50                       | 50                       | 50                         | 50                         | 50                         |
| 7                                                                | 滑块底面尺寸（左右×前后）<br>Slide area (LR*FB)                                     | mm  | 800×800     | 900×900                  | 1000×900                 | 1000×1000                | 1200×1000                  | 1300×1100                  | 1300×1100                  |
| 8                                                                | 工作台板尺寸（左右×前后）<br>Bolster area (LR*FB)                                   | mm  | 800×800     | 1000×1100                | 1000×1100                | 1000×1100                | 1200×1100                  | 1300×1100                  | 1300×1100                  |
| 9                                                                | 侧面开口尺寸（前后×上下）<br>Side opening(FB*H)                                     | mm  | 700×600     | 750×700                  | 800×850                  | 800×850                  | 900×1000                   | 1000×1100                  | 1000×1100                  |
| 10                                                               | 允许上模最大重量<br>Maximum upper die weight                                    | Kg  | 1000        | 1200                     | 1500                     | 2000                     | 3000                       | 3500                       | 3500                       |
| 11                                                               | 底座顶料装置能力<br>Bolster ejector force                                       | KN  | 320         | 520                      | 600                      | 800                      | 1000                       | 1250                       | 1250                       |
| 12                                                               | 底座顶料装置行程<br>Bolster ejector stroke                                      | mm  | 130         | 130                      | 130                      | 130                      | 130                        | 130                        | 130                        |
| 13                                                               | 工位数量<br>Station number                                                  | 个   | 3           | 3                        | 3                        | 3                        | 3                          | 3                          | 3                          |
| 14                                                               | 步距<br>Pitch                                                             | mm  | 240         | 260                      | 260                      | 260                      | 320                        | 350                        | 350                        |
| 15                                                               | 主电机功率（变频器ZDTL1）<br>Main motor power (Inverter ZDTL1)                    | Kw  | 75          | 90                       | 132                      | 160                      | 200                        | 250                        | 300                        |
| 16                                                               | 伺服主电机最大扭矩（伺服机ZDSTL1）<br>Maximum torque of servo motor<br>(Servo ZDSTL1) | Nm  | 22000       | 27000                    | 2*27000                  | 2*35000                  | 4*22000                    | 4*27000                    | 4*35000                    |

※以上为标准规格或实际业绩数据，可根据客户需求进行调整对应。  
※ The above are standard specifications or actual performance data, which can be adjusted according to customer needs.

# 热模锻压力机

Hot forging press



## 产品特点 Product features:

- ◆高刚性机身，X型超长导轨，间隙可调，精度保持性好。
- ◆合金钢锻造的偏心轴传动机构，配置动载平衡装置。
- ◆触摸屏上显示曲轴角度、spm等信息，人机交互便捷。
- ◆控制系统可实现数据采集、远程维护,预留MES接口。

- ◆High-rigidity frame, X-shaped ultra-long guide-ways with adjustable clearance and good precision retention.
- ◆The eccentric shaft transmission mechanism forged from alloy steel is equipped with a dynamic load balancing device.
- ◆The crankshaft angle, spm and other information are displayed on the touch screen, providing convenient human-computer interaction.
- ◆The control system can realize data acquisition and remote maintenance, and reserve the MES interface.

## 标准配置 Standard configuration:

- ◆干式分离合制动器 (Dry split clutch and brake)
- ◆机械式/液压式下顶料装置 (Bolster mechanical/hydraulic ejector)
- ◆滑块及上模平衡装置 (Slider and upper die balancing device)
- ◆稀油&浓油自动润滑装置 (Oil & grease automatic lubricator)
- ◆双回路安全保护 (Double circuit safety protection)
- ◆超程检测装置 (上死点检测) (Overstroke inspecting device)
- ◆预留自动化电气接口 (Reserved automatic electrical interface)
- ◆触摸屏操作盘 (Touch screen panel)
- ◆生产计数器 (Production counter)
- ◆空气喷射器 / 空气出口 3/8B (Air injector/Air outlet 3/8B)
- ◆电源插座(五孔AC220V) (Power socket (five-hole, AC220V))
- ◆模具照明灯 (Mould area light)

## 选购配置 Optional configuration:

- ◆地脚防震垫&钢梁(Cushion spring & steel frame)
- ◆快速换模装置(Quick die exchange device)
- ◆滑块上打料装置(Slider upper feeding device)
- ◆吨位仪(Tonnage meter)
- ◆前后安全门 / 围栏 / 爬梯 (Front/Back safety doors/fences/ladders)
- ◆3次元多工位机械手(3D transfer manipulator)
- ◆石墨喷涂装置 (Graphite spraying device)
- ◆周边自动化装置(Peripheral automation device)
- ◆光电安全装置 (Photoelectric safety device)

## 热模锻压力机

Hot forging press

|    | 参数<br>Paramater                       | 型号<br>Model | 标准型 Normal type |            |            |            |            |
|----|---------------------------------------|-------------|-----------------|------------|------------|------------|------------|
|    |                                       |             | ZDTR1-1000      | ZDTR1-1600 | ZDTR1-2500 | ZDTR1-3150 | ZDTR1-4000 |
| 1  | 公称力<br>Nominal force                  | KN          | 10000           | 16000      | 25000      | 31500      | 40000      |
| 2  | 滑块行程<br>Slide stroke length           | mm          | 250             | 280        | 320        | 340        | 360        |
| 3  | 滑块行程次数<br>Slide stroke number         | SPM         | 100             | 90         | 80         | 60         | 55         |
| 4  | 最大装模高度<br>Die height                  | mm          | 800             | 900        | 1000       | 1100       | 1200       |
| 5  | 滑块调节量<br>Slide adjustment             | mm          | 10              | 10         | 10         | 10         | 10         |
| 6  | 滑块底面尺寸（左右×前后）<br>Slide area (LR*FB)   | mm          | 820x930         | 1030x1140  | 1260x1380  | 1360x1540  | 1460x1710  |
| 7  | 工作台面尺寸（左右×前后）<br>Bolster area (LR*FB) | mm          | 850x1120        | 1050x1400  | 1300x1700  | 1400x1860  | 1500x2050  |
| 8  | 侧面开口尺寸（前后×上下）<br>Side opening(FB*H)   | mm          | 800x800         | 950x900    | 1100x1000  | 1200x1100  | 1300x1200  |
| 9  | 允许上模最大重量<br>Maximum upper die weight  | Kg          | 1000            | 1500       | 2000       | 2500       | 3000       |
| 10 | 下顶出形式<br>Bolster ejector form         | /           | 机械 / 液压         | 机械 / 液压    | 机械 / 液压    | 机械 / 液压    | 机械 / 液压    |
| 11 | 底座顶料装置能力<br>Bolster ejector force     | KN          | 150             | 240        | 375        | 475        | 600        |
| 12 | 底座顶料装置行程<br>Bolster ejector stroke    | mm          | 30              | 37         | 44         | 48         | 52         |
| 13 | 工位数量<br>Station number                | 个           | 3               | 3          | 4          | 4          | 4          |
| 14 | 步距<br>Pitch                           | mm          | 260             | 300        | 320        | 350        | 380        |
| 15 | 顶杆直径<br>Diameter                      | mm          | φ 50            | φ 70       | φ 80       | φ 90       | φ 90       |
| 16 | 主电机功率<br>Main motor power             | Kw          | 75              | 110        | 160        | 200        | 300        |

※以上为标准规格或实际业绩数据，可根据客户需求进行调整对应。  
※The above are standard specifications or actual performance data, which can be adjusted according to customer needs.

## 应用产品 Application products:





# 自动化及周边装置

## Automation and Peripherals

### 冲压类自动化装置 Press automation device:

二合一/三合一送料机、料片拆垛机、多工位步进梁机械手、一杆式机械手、独立模组式机械手、桁架式机械手、机器人搬运、换模台车、产品和废料传送带；



三合一送料机（带上料台车）  
Straightener feeder (With feeding trolley)



拆垛机  
Unstacker



多工位机械手  
Multi-station transfer



十轴多工位机械手  
10-axis servo  
multi-station  
transfer



一杆式机械手  
One-bar manipulator



双机连线堆垛拆垛装置  
Dual press connected stacking and destacking device

### 多工位步进梁机械手特点 Features of multi-station walking beam manipulator

- ◆采用滚珠丝杠传动，没有尺侧间隙，可实现高精度的高速搬运。
- ◆通过伺服控制，可以自由调整夹紧、提升、送进各个动作的时序和距离，可对应不同规格的模具。
- ◆传动机构和箱体采用标准化和模块化设计，安装调试和操作简单便捷。
- ◆夹具调整或更换方便，对应不同产品可快速换线。
- ◆It adopts ball screw transmission without backlash on the scale side, enabling high-precision and high-speed handling.
- ◆Through servo control, the timing and distance of each action of clamping, lifting, and feeding can be freely adjusted, which can correspond to molds of different specifications.
- ◆The transmission mechanism and the box body adopt standardized and modular design, making installation, debugging, and operation simple and convenient.
- ◆The gripper is easy to adjust or replace, enabling quick line change for different products.

### 锻压类自动化装置 Forging automation device:

上料装置（提升机、振动盘）、多工位步进梁机械手(5轴/10轴)、机器人搬运、石墨喷涂装置、产品和废料传送带、翻模装置；



链板式提升机+步进梁机械手  
Chain plate elevator + Multi-station transfer



推板式提升机+步进梁机械手  
Push plate elevator + Multi-station transfer



热模锻用十轴步进梁机械手  
10-axis servo multi-station transfer for hot forging press



换模臂  
Die exchange arm



石墨喷涂装置  
Graphite spraying device



石墨喷涂机械手  
Graphite spraying manipulator



# 传统压力机伺服化改造

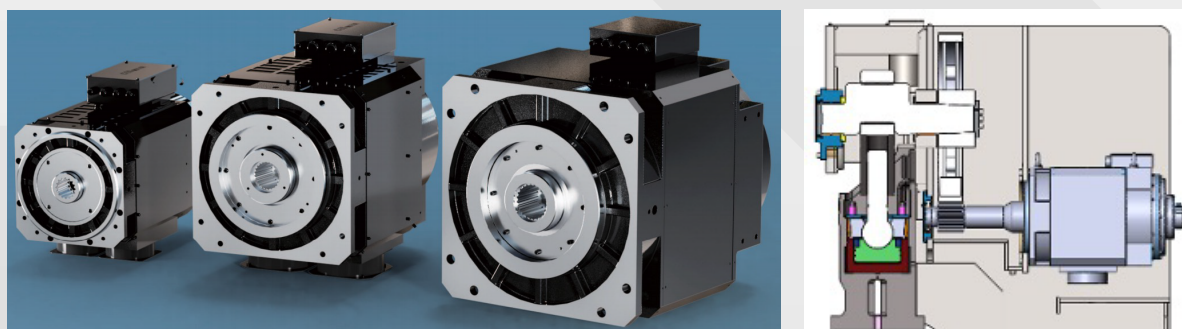
## Servo transformation of traditional press

该技术服务是将普通机械压力机进行伺服化改造升级（即“普通机械压力机改造为伺服压力机”），让冲压加工厂以较小的成本即可获得先进的伺服压力机技术服务，目前使用的伺服电机扭矩从单台2500Nm到35000Nm，可实现80吨~3000吨的压力机改造，涵盖市场上冲压和锻造的绝大多数机型。

This technical service is to carry out servo transformation and upgrade on ordinary mechanical presses (that is, "transform ordinary mechanical presses into servo presses"). This allows stamping processing factories to obtain advanced servo press technical services at a relatively small cost. Currently, the servo motor torque ranges from 2500 Nm to 35000 Nm per unit. It can realize the transformation of presses from 80 tons to 3000 tons, covering most of the models in the stamping and forging markets.

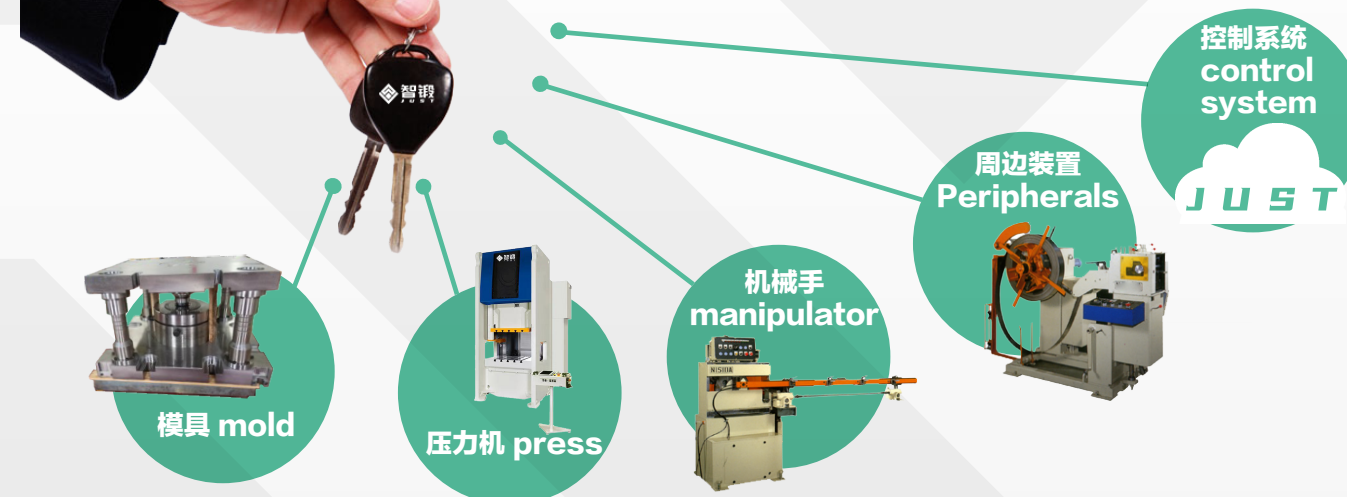
### 产品特点 Product features:

- ◆传动机构和伺服电机采用花键连接，安装简单方便，不需要将压机整体拉出去改造，施工周期短。
- ◆采用低速大扭矩风冷的永磁同步伺服电机，过载能力强，控制精度高，工艺适应性强。
- ◆大功率伺服驱动器，和伺服电机匹配性好，压机做功能量大，可用伺服模式做深拉伸加工。
- ◆1000T以上的压机通常要用2台或4台伺服电机驱动，智锻的多电机伺服同步技术可实现这种改造。
- ◆改造后控制系统可实现数据采集、远程维护，预留MES接口。
- ◆配置能量管理系统，节能环保。
- ◆The transmission mechanism and the servo motor are connected by splines, which is simple and convenient to install. There is no need to pull out the entire press for transformation. The construction period is short.
- ◆It adopts a low-speed high-torque air-cooled permanent magnet synchronous servo motor, which has strong over-load capacity, high control precision and strong process adaptability.
- ◆High-power servo driver has good matching with servo motor. The press has a large power for operation and can be used in servo mode for deep drawing processing.
- ◆For presses above 1000T, usually two or four servo motors are required for driving. The multi-motor servo synchronization technology of ZD-JUST can realize such transformation.
- ◆After the transformation, the control system can realize data acquisition and remote maintenance, and reserve the MES interface.
- ◆It is equipped with an energy management system, which is energy-saving and environmentally friendly.



# 交钥匙工程的解决方案

## Turnkey project solutions



公司兼具锻造、冲压压设备与周边自动化装置独立设计和制造能力，根据客户需求量身定制，提供从成型工艺分析、模具设计加工调试、压力机、机械手等周边装置以及控制系统在内合理的冲压自动化解决方案和交钥匙工程。您只需要提供生产零件的图纸，我们就会做零件的成型工艺分析和CAE分析，为您设计出最专业最实用最具有性价比的冲压、锻造生产线方案。

ZD-JUST is capable of independent and manufacture of forging&stamping press and automated peripheral devices. ZD-JUST provides customized reasonable automation solution and turnkey projects including analysis of Molding Process, dies design, processing and debugging, press, Peripheral devices such as transfer units, and control system. Therefore Customers just need to give the drawing of part, We will conduct the analysis of the molding process and CAE analysis for the parts. ZD-JUST will design the most profess, and practical and cost-effective forging stamping line solution for you!

