

Cages Welded With ZGTEK Machines



**浙工<sup>®</sup>**

除尘袋笼（骨架）生产线

**ZGTEK<sup>®</sup>**

Filter Bag Cage Production Line



**嘉兴市浙工数控焊机有限公司**

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**嘉兴市浙工数控焊机有限公司**

Jiaxing Zhe Gong CNC Welding Machine Co., Ltd.

· 袋笼生产线的设计、制造及服务的依据是:

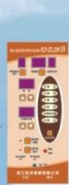
中华人民共和国机械行业标准《袋式除尘器用滤袋框架JB/T 5917-2006》

可依客户要求定制以满足客户的特定应用

Design, manufacture and service of filter cage production line based on:

Chinese National Standard of Filter Cages for Baghouse Dust Collecting Systems (JB/T 5917-2006)

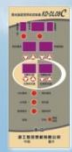
Customizable solutions to suit customers' specific applications



第一代 Generation I



第二代 Generation II



第三代 Generation III



第四代 Generation IV



第五代 Generation V

■ 第一代至第五代界面图 UI of generation I to V

## 证书和专利 Certificates and Patents



■ 专业——致力于唯一的产品（袋笼生产线）  
Professionalism —— We solely focus on filter bag cage welding production line

■ 获国家科技部创投基金、市科技局高新项目资金支持  
ZGTEK is partly supported and funded by Ministry of Science and Technologies of China and Bureau of Science and Technologies of Jiaxing City.

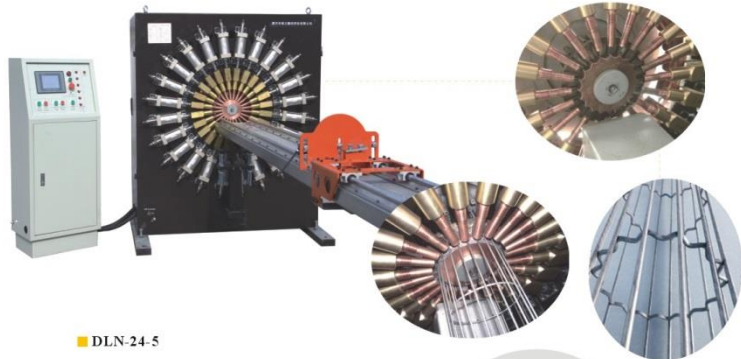


■ 最新产品（打圈焊接一体机）  
New products (ring making and welding integrated machine)



浙工 ZGTEK

■ 厂貌 Factory



■ DLN-24-5



圆形（星形）袋笼焊机（浙工第五代）  
Round (Star-shaped) filter bag cage welding machine [ZGTEK Generation V]

| 型号<br>Model | 纵筋数量<br>Wire quantity                   | 环距<br>Ring space     | 袋笼外尺寸<br>Cage OD  |
|-------------|---|----------------------|---|
| DLN-16-5    | 8, 10, 12, 16                           | 任意<br>No restriction | Φ100-Φ160<br>标准轨道长度为7.5米, 可定制8-10米<br>Standard rail length 7.5m, 8-10m optional |
| DLN-24-5    | 8, 10, 12, 16, 20, 24<br>(14, 18和22可订制) |                      | Φ100-Φ200<br>标准轨道长度为7.5米, 可定制8-10米<br>Standard rail length 7.5m, 8-10m optional |



新型、高可靠性的导向盘  
Guiding plate



中心圆电极  
Center electrode



直电极  
Vertical electrode



模芯, Mould core



软铜带 Copper belt

### 第五代袋笼焊接控制系统

#### Control unit of generation V cage welding machine

- 全新的机体结构, 面板由加工中心一次加工, 侧门、后面可方便开启, 便于调试和维护  
New body design, the main plate is made through one-time machining on a CNC center, with openable side doors and back doors, easy for adjusting and maintaining
- 焊点质量控制及监测  
Welding joint quality control and monitor
- 在焊点质量控制方面比第四代产品更加优秀, 该设备具有主动学习功能, 能识别焊接牢固度异常的焊点, 并自动调整焊接电流进行补焊, 如补焊后仍有问题, 则报警提示操作工进行人工干预, 此功能对于表面质量较差的钢丝有非常有效的实际应用价值。  
Better welding joint quality control than generation IV machines, features intelligent learning which identifies bad welding joints and re-welds automatically, if further fault found after re-welding, machine will stop and error messages prompted to urge operators to take actions, extremely useful when working with wires which have a bad surface finish
- 根据材料选择不同的焊接方案, 各种的材料都能获得最佳的焊接效果  
Select different welding methods for various materials, achieve best welding result for all
- 每组焊点的焊接功率可分别调节  
Welding power of different welding points able to be set individually
- 沿袭第四代成熟的步进电机拉笼系统, 无累积定位误差; 袋笼的各环距通过人机界面输入, 易于制造在同一条袋笼上有不同环距的袋笼。  
Inherit the proven generation IV step motor pulling system, no accumulated locating tolerance, ring space programmable, especially applicable to bag cages with different ring spaces
- 快速、中速拉笼  
High speed/Normal speed cage pulling

### 用户界面User interface



|                            |  |  |                             |
|----------------------------|--|--|-----------------------------|
| 额定输入电压<br>Input voltage    | 2相 380V 或根据客户要求定制<br>380V (2-phase) or specified by customer | 同步工作模式焊接时的瞬时功率<br>Instant power in sync mode                 | 约 36KVA<br>About 36KVA      |
| 额定电网频率<br>Power frequency  | 50/60Hz  | 分时工作模式焊接时的瞬时功率<br>Instant power in async (time-sharing) mode | 约 18KVA<br>About 18KVA      |
| 变压器的设计容量<br>Power capacity | 80KVA  | 变压器数量<br>Transformers  | 2台<br>2PCS                  |
| 气源压力<br>Air pressure       | 0.6-0.8MPa   | 耗气量<br>Air flow  | 0.3立方米/分钟<br>About 300L/min |
| 冷却方式<br>Cooling            | 自然冷却<br>Natural cooling                                      | 重量<br>Weight   | 约1000KG<br>About 1000KG     |



■ “浙工”第二代打圈焊接一体机 R-6-300  
2nd Generation Ring Making and Welding Machine R-6-300

“浙工”第一代打圈焊接一体机问世，填补了国内空白。如今，第二代打圈焊接一体机比第一代更为卓越：

1. 高精度直径差：智能“S”形速度曲线，外置旋转编码器和高伺服电机构成闭环送丝控制系统，保证直径误差小于0.13mm，彻底解决了传统机械或液压打圈机的圈径精度问题。
2. 最先可行的送丝方式：由进口伺服和进口行星齿轮减速机构成的送丝系统，并以“双驱动”方式送丝。
3. 全自动运行：圈径大小自动调节，运行时无需人工干预。
4. 多功能焊接系统：适合低、中、高碳钢、弹簧钢、镀锌钢的打圈和对焊；如配以TIG焊单元，可完成不锈钢和钛的自动对接。
5. 简单易学易维护：人机界面功能强大，通过触屏界面可轻易调试、运行和诊断操作失误。

Two years ago, the release of ring making and welding integrated machine had been the first of its kind in China; now, the 2nd generation machine is even more powerful:

1. High precision: intelligent "S" shape speed curve, the encoder and the servo motor form a closed-loop wire feeding control system, secure a diameter tolerance less than 0.13mm, eventually solve the ring precision issues inherent in the traditional mechanical or hydraulic ring making machines.
2. Advanced and reliable wire feeding: the feeding unit includes a high-end servo motor and a planetary reducer, works on the basis of "dual-drive".
3. Automatic ring making: size can be adjusted automatically, worker attendance is not required during machine running.
4. Compatible welding: capable of welding low, medium and high carbon steel, spring steel, galvanized steel; if equipped with a TIG unit, it can also weld stainless steel and titanium rings.
5. Easy operation and maintenance: user-friendly interface on touch screen, easy to adjust, operate and diagnose the machine.

|  |   |                                       |  |
|--|---|---------------------------------------|--|
| 额定输入电压<br>Input voltage                    | 3相 380V 或根据客户要求定制<br>380 (3-phase) or specified by customer | 焊接时瞬时功率<br>Inert Power during welding | 18KVA (对于4mm钢丝)  |
| 额定电网频率<br>Power frequency                  | 50/60Hz   | 送丝时功率<br>Inert Power during feeding   | 3KVA   |
| 钢丝直径<br>Wire thickness                     | 2.8-6mm   | 最小圈直径<br>Min ring diameter            | 钢丝直径小于4mm, 最小圈直径88mm<br>88mm (wire thickness <4mm)                 |
| 最大圈直径<br>Max ring diameter                 | 300mm   | 最大圈直径<br>Max ring diameter            | 钢丝直径4-5mm, 最小圈直径90mm<br>90mm (4mm < wire thickness < 5mm)          |
| 圈直径公差范围<br>Ring diameter tolerance         | 0.13mm  | 圈直径公差范围<br>Ring diameter tolerance    | 钢丝直径5-6mm, 最小圈直径105mm<br>105mm (5mm < wire thickness < 6mm)        |
| 气源压力<br>Air pressure                       | 0.6-0.8MPa  | 生产效率<br>Throughput                    | 约1200件/小时 (对于直径150mm的圈)<br>About 1200pcs/hour (for Ring dia.150mm) |
| 冷却方式<br>Cooling                            | 自然冷却<br>Natural cooling                                     | 耗气量<br>Air flow                       | 0.25立方米/分钟<br>250L/min   |
| 焊接容量设计功率<br>Design capacity of Inert power | 40KVA   | 重量<br>Weight                          | 1100KG   |

■ 打圈机  
Ring making machine RM-6-310



为袋笼生产量身打造

- 高精度：智能“S”形速度曲线，旋转编码器和步进电机构成闭环送丝控制系统，保证直径误差小于0.14mm，彻底解决了传统机械或液压打圈机的圈径精度问题。
- 高稳定性：2台电机直接驱动送丝，机内无齿轮、无带轮，无任何因磨损而导致精度下降的部件。
- 操作极为简便：调节圈径毫不费力，根本不同于传统机械或液压打圈机。
- 人机界面简单易用，计数器实时显示打圈工作量

Specially made for cage production

- High precision: intelligent "S" shape speed curve, the encoder and the servo motor form a closed-loop wire feeding control system, secure a diameter tolerance less than 0.14mm, eventually solve the ring precision issues inherent in the traditional mechanical or hydraulic ring making machines.
- High stability: wire feeding unit is driven by two motors directly without gears, belts or other transmission parts which would get less precise due to wear-out.
- Easy operation: ring size is adjusted by turning the wheel, much easier than traditional mechanical or hydraulic machines.
- User-friendly UI, the counter always shows the amount of rings formed.

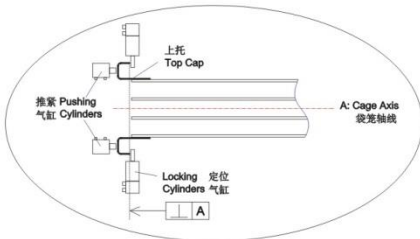
|                                    |  |                            |  |
|------------------------------------|--|----------------------------|--|
| 额定输入电压<br>Input voltage            | 220V或定制<br>220V or specified by customer | 额定功率<br>Rated power        | 2KVA   |
| 额定电网频率<br>Power frequency          | 50/60Hz                                  | 最小圈直径<br>Min ring diameter | 90mm   |
| 钢丝直径<br>Wire thickness             | 2.8-5mm                                  | 最大圈直径<br>Max ring diameter | 310mm  |
| 圈直径公差范围<br>Ring diameter tolerance | 0.14mm                                   | 生产效率<br>Throughput         | 约2200件/小时 (对于直径150mm的圈)<br>About 2200pcs/hour (for ring dia.150mm) |
| 气源压力<br>Air pressure               | 0.6-0.8MPa                               | 耗气量<br>Air flow            | 0.25立方米/分钟<br>250L/min   |
| 冷却方式<br>Cooling method             | 自然冷却<br>Natural cooling                  | 重量<br>Weight               | 约300KG<br>About 300KG  |

- 上托四点定位焊机D4S-80-2 (高端上托焊机, 可替代DS-80/50)  
Four-point positioning welder D4S-80-2 (high-end top cap welder, replacement of DS-80/50)

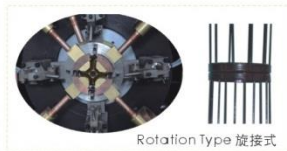


- 以袋笼上托的安装基准面定位, 锁定上托后焊接4点, 以保证上托安装面和袋笼轴线的垂直度  
Based on the top cap hanging surface, top cap will be locked and four points will be welded, to ensure verticality between hanging surface and cage axis
- 然后转动袋笼, 主气缸动作完成逐点焊接  
Turn the cage and weld the rest points

|                            |  |  |                             |
|----------------------------|--|--|-----------------------------|
| 额定输入电压<br>Input voltage    | 2相 380V 或根据客户要求定制<br>380V (2-phase) or specified by customer |  |                             |
| 额定电网频率<br>Power frequency  | 50/60Hz  | 焊接时的瞬时功率<br>Instant power during welding | 约 35KVA<br>About 35KVA      |
| 变压器的设计容量<br>Power capacity | 80KVA  | 变压器数量<br>Transformers                    | 1台<br>1 PC                  |
| 气源压力<br>Air pressure       | 0.6-0.8MPa   | 耗气量<br>Air flow                          | 0.1立方米/分钟<br>About 100L/min |
| 冷却方式<br>Cooling            | 水冷<br>Water cooling  | 重量<br>Weight                             | 约600KG<br>About 600KG       |

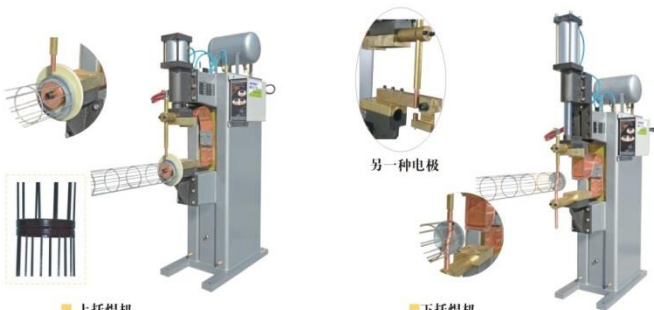


- 联接固定定位焊机 D51-80-2  
Linking part welder for multi-section cage D51-80-2



- 适用于卡槽方式和旋接方式的多节袋笼, 以保证袋笼的直线度  
Applicable to multi-section cages of rotation type and open ring type, secure cage straightness
- 充分保证开口圈(连接圈)平面和袋笼中心轴线的垂直度  
Ensure the verticality between linking ring plane and cage axis
- 先在右工位完成四点或五点定位焊接, 然后在左工位焊接其余各点  
First weld the 4 or 5 points on the right side, then move the cage to the left to weld the rest points
- 订货时注意: 卡槽联接和旋接所对应的中心模具不一样  
Notice that the fixtures for rotation type and open ring type are different

|                            |  |  |                                  |                                 |
|----------------------------|--|--|----------------------------------|---------------------------------|
| 额定输入电压<br>Input voltage    | 2相 380V 或根据客户要求定制<br>380V (2-phase) or specified by customer |  |                                  |                                 |
| 额定电网频率<br>Power frequency  | 50/60Hz  | 焊接时的瞬时功率<br>Instant power during welding | 约 15KVA(卡接)<br>15KVA (Open Ring) | 约 35KVA(旋接)<br>35KVA (Rotation) |
| 变压器的设计容量<br>Power capacity | 80KVA  | 变压器数量<br>Transformers                    | 1台<br>1 PC                       |                                 |
| 气源压力<br>Air pressure       | 0.6-0.8MPa   | 耗气量<br>Air flow                          | 0.1立方米/分钟<br>About 100L/min      |                                 |
| 冷却方式<br>Cooling            | 自然冷却<br>Natural cooling                                      | 重量<br>Weight                             | 约600KG<br>About 600KG            |                                 |



另一种电极

■ 上托焊机  
Top cap welder DS-80/DS-50

■ 下托焊机  
Bottom cap welder DX-80/DX-50



■ 文氏管焊机  
Venturi tube welder DW-80

- 特殊设计一体化加压气缸,确保加压的稳定性和灵活性及焊接速度
- 整体式机体, 刚性良好
- 上托定法兰及可调托架可保证上托与袋笼轴线的垂直度
- 上托焊机也可用于多节袋笼连接圈的焊接
- Specifically designed cylinder ensures stable air pressure and welding speed
- One-piece machine body secures its rigidity
- Adopting KD-08B controller and reliable welding loop
- Top support locating flange and adjustable stand ensures the perpendicularity between the cap plane and cage axis
- Top cap welder is also applicable for welding connecting parts for multi-section cages

| 型号<br>Model | 额定输入电压 (V)   | 变压器容量<br>Power capacity (KVA) | 工作容量<br>Working load (KVA) | 耗气量<br>(L/min)<br>Air flow | 冷却方式<br>Cooling method | 说明<br>Remarks   |
|-------------|--|-------------------------------|----------------------------|----------------------------|------------------------|---|
| DS-80       | 2相380V<br>(50Hz)<br>或根据客户要求定制<br>380V (2-phase 50Hz)<br>or specified by customer | 80                            | 约35<br>About 35            | 100                        | 水冷<br>Water cooling    | 当电网电压偏低或焊接镀锌丝时建议采用DS-80、DX-80<br>DS-80/DX-80 is recommended when the power source voltage is relatively low or when weld zinc-plated (galvanized) wires |
| DS-50       |  | 50                            |                            | 80                         |                        |   |
| DX-80       |  | 80                            |                            | 200                        |                        |   |
| DX-50       |  | 50                            |                            | 150                        |                        |   |
| DW-80       | 80   | 80                            | 80                         |                            |                        |   |

- KD-D08A/KD-KD08B控制器  
KD-D08A/KD-D08B Controller
- 卧式焊接, 适应任意长度袋笼, 含托架  
Horizontal welding, applicable for welding filter bag cages of any lengths, supporting stand included

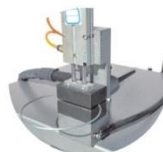
### ■ 对焊机 Ring butt welding machine UR-40



- 该设备的焊接原理是电阻焊, 适应低碳钢丝的对焊  
This machine is a resistance welding machine, good for welding low carbon steel wires
- 焊接速度快, 熟练工每班可焊接8000个圈  
High speed, capable of welding 8000 rings per 8-hour shift
- 热影响范围小, 约3-4mm, 非常适合镀锌铁丝的焊接  
Small heat affected area, approximately 3-4mm, especially applicable for welding zinc-plated/galvanized wire

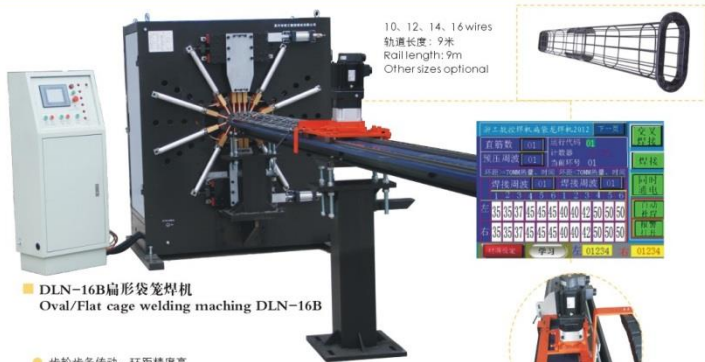
| 额定输入电压 (V)   | 变压器容量<br>Power capacity (KVA) | 工作容量<br>Working load (KVA) | 适应钢丝直径<br>Wire thickness (mm) | 冷却方式<br>Cooling method  | 耗气量<br>(L/min)<br>Air flow |
|--|-------------------------------|----------------------------|-------------------------------|-------------------------|----------------------------|
| 2相 380V (50Hz)<br>或根据客户要求定制<br>380V (2-phase 50Hz)<br>or specified by customer | 40                            | 约15<br>About 15            | 2.5-6                         | 自然散热<br>Natural cooling | 约150<br>About 150          |

### ■ 不锈钢对焊机 SS ring TIG welding machine ARW



- 该设备的焊接原理是TIG焊, 适应不锈钢丝的对焊  
This machine is an argon arc welding machine (TIG weld), good for welding stainless steel wires
- 焊点牢固、光洁  
Firm welding joints, good surface finish

| 额定输入电压 (V)   | 焊接单元的功率 (KVA) | 焊接单元的最大输出电流 (A) | 不锈钢丝直径 (mm) | 冷却方式<br>Cooling Method  | 压缩空气耗气量 (L/min)   | 氩气耗气量 (L/min) |
|--|---------------|-----------------|-------------|-------------------------|-------------------|---------------|
| 3相 380V (50Hz)<br>或根据客户要求定制<br>380V (3-phase 50Hz)<br>or specified by customer | 12            | 300             | 2.5-6       | 自然散热<br>Natural cooling | 约150<br>About 150 | 5             |



10, 12, 14, 16wires  
轨轴长度: 9米  
Roll length: 9m  
Other sizes optional



### DLN-16B扁形袋笼焊机 Oval/Flat cage welding machine DLN-16B

- 齿轮齿条传动，环距精度高  
Gear rack transmission achieves high ring space precision
- 直线导轨，小车动作灵活，袋笼直线度高  
Linear guiding rail, quick response of carriage, ensure good cage linearity
- 焊接时，环面自动锁定，保证环面平面垂直于袋笼中心轴  
Rings locked while welding, ensures good verticality between ring plane and cage axis
- 各环能通过编程设定，（进口伺服电机+精密行星齿轮减速机）或步进电机与齿轮、齿条构成拉笼系统，环距精度高，无累计定位误差，拉笼速度为0.4米/秒，非常适应同一条袋笼存在多个不同尺寸的环距。  
Ring space is programmable and cage is pulled by mechanism formed by gear rack and step motor, no accumulated locating tolerance, ring space precision is 0.1mm, pulling speed is 0.4m/s, especially applicable to cages with different ring spaces

|                            |  |  |                             |
|----------------------------|--|--|-----------------------------|
| 额定输入电压<br>Input voltage    | 2相 380V 或定制<br>380V (2-phase) or specified by customer | 同步工作模式焊接时的瞬时功率<br>Instant power in sync mode                 | 约 346KVA<br>About 346KVA    |
| 额定电网频率<br>Power frequency  | 50/60Hz  | 分时工作模式焊接时的瞬时功率<br>Instant power in async (line-sharing) mode | 约 18KVA<br>About 18KVA      |
| 变压器的设计容量<br>Power capacity | 80KVA  | 变压器数量<br>Transformers  | 2台<br>2 PCS                 |
| 气源压力<br>Air pressure       | 0.4-0.8MPa   | 耗气量<br>Air flow  | 0.3立方米/分钟<br>About 300L/min |
| 冷却方式<br>Cooling            | 自然冷却<br>Natural cooling                                | 重量<br>Weight   | 约1300KG<br>About 1300KG     |



### 浙工搅拌站用扁形袋笼焊机 Other flat cage welding machine

### 扁袋笼上托定位焊机 D6S-80B Top cap six-point welder for oval/flat cage D6S-80B



- 简单易用，一次装夹即完成所有焊接；上托锁定功能，保证袋笼上托与中心轴线的垂直度  
Easy to use, finalize all welding work with one time fixture change; top cage locking function ensures vertically between the cage top and cage axis.

|                            |  |  |                             |
|----------------------------|--|--|-----------------------------|
| 额定输入电压<br>Input voltage    | 2相 380V 或根据客户要求定制<br>380V (2-phase) or specified by customer | 焊接时的瞬时功率<br>Instant power during welding | 约 20KVA<br>About 20KVA      |
| 额定电网频率<br>Power frequency  | 50/60Hz  | 变压器的设计容量<br>Power capacity               | 1台<br>1 PC                  |
| 变压器的设计容量<br>Power capacity | 80KVA  | 耗气量<br>Air flow                          | 0.3立方米/分钟<br>About 300L/min |
| 气源压力<br>Air pressure       | 0.6-0.8MPa   | 冷却方式<br>Cooling                          | 自然冷却<br>Natural cooling     |
| 冷却方式<br>Cooling            | 自然冷却<br>Natural cooling                                      | 重量<br>Weight                             | 约600KG<br>About 600KG       |

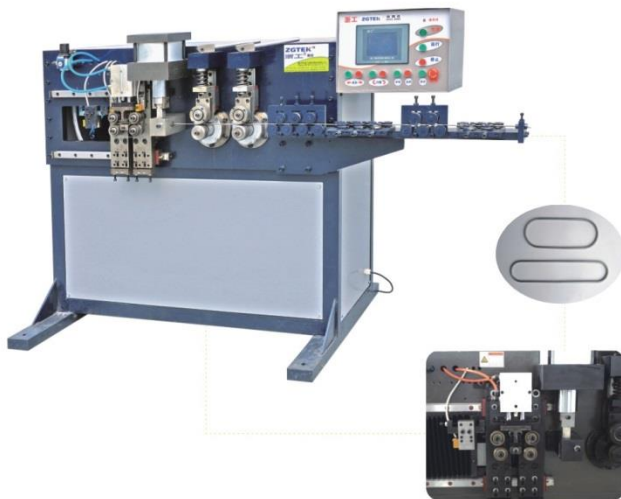
### 扁袋笼导向片焊机 DLJ-80B Guiding plate welder for oval/flat cage DLJ-80B



|                            |  |  |                             |
|----------------------------|--|--|-----------------------------|
| 额定输入电压<br>Input voltage    | 2相 380V 或根据客户要求定制<br>380V (2-phase) or specified by customer | 焊接时的瞬时功率<br>Instant power during welding | 约 20KVA<br>About 20KVA      |
| 额定电网频率<br>Power frequency  | 50/60Hz  | 变压器的设计容量<br>Power capacity               | 1台<br>1 PC                  |
| 变压器的设计容量<br>Power capacity | 80KVA  | 耗气量<br>Air flow                          | 0.3立方米/分钟<br>About 300L/min |
| 气源压力<br>Air pressure       | 0.6-0.8Mpa   | 冷却方式<br>Cooling                          | 自然冷却<br>Natural cooling     |
| 冷却方式<br>Cooling            | 自然冷却<br>Natural cooling                                      | 重量<br>Weight                             | 约600KG<br>About 600KG       |

### 扁圈成形机

Oval/flat ring making machine OR-140-350



- 通过更换打圈轮等配件，可调节扁圈尺寸  
Adjust ring size by changing forming wheels
- 圈的周长稳定，一致性好  
Good stability of ring size

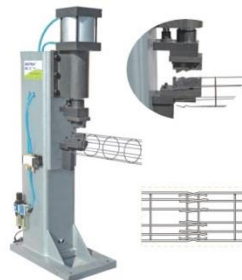
|                           |  |                     |                             |
|---------------------------|--|---------------------|-----------------------------|
| 额定输入电压<br>Input voltage   | 单相 220V 或根据客户要求定制<br>220V (1-phase) or specified by customer |                     |                             |
| 额定电网频率<br>Power frequency | 50/60Hz  | 额定功率<br>Rated power | 约 4KVA<br>About 4KVA        |
| 气源压力<br>Air pressure      | 0.4-0.8MPa   | 耗气量<br>Air flow     | 0.1立方米/分钟<br>About 100L/min |
| 圈尺寸<br>Ring size          | 最小 40*130毫米<br>Min 40*130mm<br>最大 90*380毫米<br>Max 90*380mm   | 重量<br>Weight        | 约 350KG<br>About 350KG      |



■ 双头底盖扣压机 BP-100-2  
Pneumatic bottom cap crimper



■ 钢丝Z形成形机 WB-100  
Z-shaped wire bending machine



■ 钢丝多折成形机 WB-160  
Multi-bend wire bending machine



■ 笼底弯钩机 WG  
Bottom hook bending machine

|                         | 双头底盖扣压机BP-100-2  | 钢丝Z形成形机WB-100 | 钢丝多折成形机WB-160 | 笼底弯钩机WG  |
|-------------------------|--|---------------|---------------|----------|
| 额定输入电压<br>Input voltage | 单相220V或根据客户要求定制<br>220V (1-phase) or specified by customer |               |               |          |
| 气源压力<br>Air pressure    | 0.4-0.8MPa   |               |               |          |
| 耗气量<br>Air flow         | 150L/min   | 100L/min      | 150L/min      | 100L/min |

### ■ 中速调直机 TZ2.8-5 Medium-speed wire straightening machine



|                               |          |
|-------------------------------|----------|
| 额定输入电压<br>Input voltage (V)   | 380V 3P  |
| 额定功率<br>Rated power (KVA)     | 4        |
| 线速度 (m/min)<br>Feeding speed  | 25       |
| 适应钢丝直径<br>Wire thickness (mm) | 2.8-5    |
| 长度范围<br>Range of length (mm)  | 500-8000 |

注：如使用地电压不是380V，则需要配一个5KVA 3相变压器  
Note: if input voltage is not 380V, a 5KVA 3-phase transformer is needed

|                               |         |
|-------------------------------|---------|
| 额定输入电压<br>Input voltage (V)   | 380V 3P |
| 额定功率<br>Rated power (KVA)     | 2.2     |
| 适应钢丝直径<br>Wire thickness (mm) | 2.8-6   |
| 打圈直径<br>Ring diameter (mm)    | 90-400  |

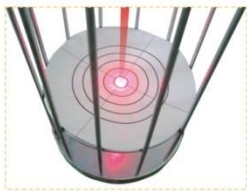
注：如使用地电压不是380V，则需要配一个3KVA 3相变压器  
Note: if input voltage is not 380V, a 3KVA 3-phase transformer is needed



■ 打圈机 DQ1000K (液压)  
Ring making machine (Hydraulic)



■ 激光袋笼垂直度检验仪 LVV  
Laser cage verticality tester



### ■ 集装箱移动式袋笼生产线，袋笼现场制作，解决袋笼长途运输的成本问题 Mobile cage welding line (40ft container), on-site cage production without any transport cost



■ 后视图：气源、调直机  
Back view: air supply, wire straightening machine



■ 前视图：上托氏管一体焊机，下托焊机  
Front view: top cap and venturi welder, bottom cap welder



■ 移动式袋笼生产线  
Mobile cage welding line



■ 电表、开关柜  
Electricity meter, power cabinet



■ 中视图：袋笼焊机  
Middle view: cage welding machine



■ 侧视图：打圈机  
Side view: ring making machine

### ■ 厂房一览 The Factory



数控车床  
NC Lathe



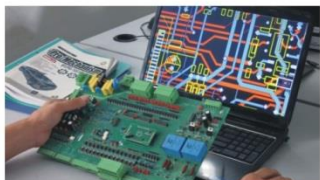
加工中心  
CNC Milling Machine



客户培训区  
Training Area



打圆机组装线  
Ring Machine Assembly Line



电路设计  
Electric Design



机械设计  
Mechanical Design

### ■ 展会 Expos



袋式除尘展 上海  
Bag Filter Exhibition Shanghai



美国过滤展  
Filtration Exhibition USA

### ■ 客户分布 Distribution of Customer

