

創新 · 研發  
Innovative R&D

Hooha Machine

## HOOHA COMPANY LIMITED

DONGGUAN GUANBIAO ELECTRICAL MACHINERY COMPANY LIMITED

### COMPANY PROFILE

DONGGUAN GUANBIAO ELECTRICAL MACHINERY COMPANY LIMITED

is one of the TOP companies in China to make the cable machinery since 2003 established in Dongguan, is becoming the leading maker in the manufacturing, designing of wire & cable machinery in China.

GUANBIAO set up the HOOHA company in HONGKONG by 2015.

GUANBIAO has been producing reliable quality machines with competitive price for dozens of famous wire & cable makers throughout the world, GUANBIAO products has been sold to 25 overseas countries with more than 130 overseas customers including: Korea, Japan, India, Indonesia, Malaysia, Thailand, Vietnam, Singapore, Cambodia, Brunei, Bangladesh, Sri Lanka, Jordan, U. A. E, Brazil, Mexico, U. S, U. K., Russia, Tunisia, and Israel.

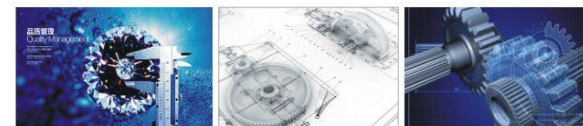
Our main Products include:

- \* Wire drawing machine
- \* tubular annealing and tinning machine

# X HOOHA Wire Drawing Machine

<http://www.hoohahk.com>

“We focus on every detail”



**Perfect system:** To make consistent improvement on the basis of ISO9001:2008 quality system.

**Design concept:** To prolong service life of the machine, to make energy saving and environmental protection products.

**Incoming inspection:** All the electrical components are of famous brand, and accepted by our company with strict inspection.

**Quality assurance:** Over 24 hours debug plus on site test, that's the way we secure the quality.

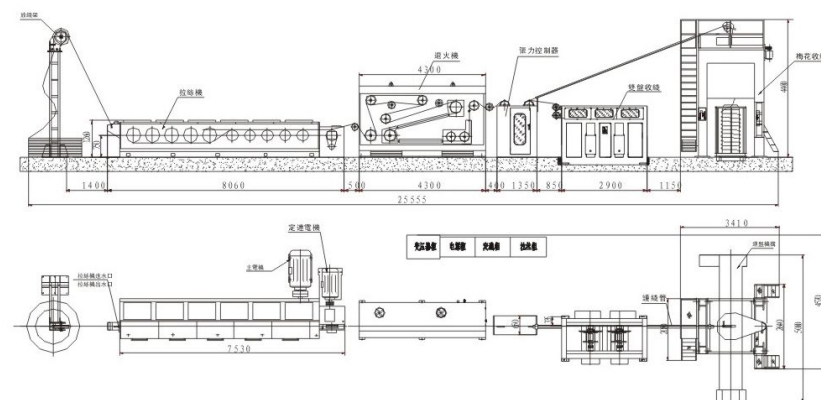


## R 大拉機組合生產綫 BD Production Line

大拉機+ ( 卧式 ) 退火機+張力機構  
+梅花落綫機+雙盤收綫

RBD machine+horizontal annealer+tension part+coiler  
machine+double spooling taking-up

heavy rod wire drawing  
machine with annealer



## R 大拉主機系列 BD Machine Series

DL400大拉主機系列 DL400 RBD machine series  
DL400-7/DL400-9/DL400A-9/DL400-11/DL400-13

### 機型特點:

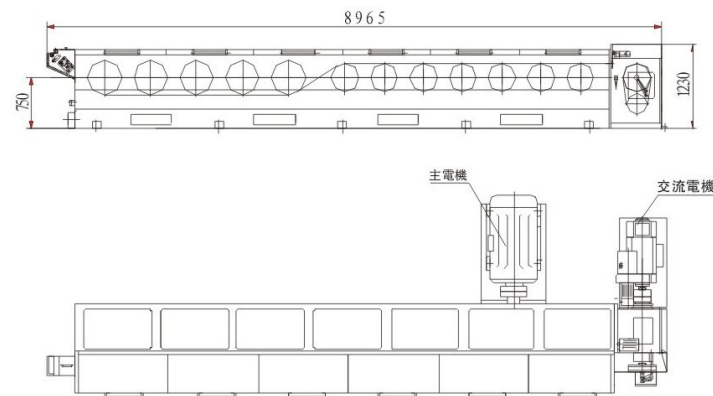
- 整機交流免維護三相交流電機驅動, 節能;
- 微滑動拉絲, 有效提高拉絲輪使用壽命和綫材表面質量;
- 高硬度斜齒面精磨齒輪傳動, 噪音小, 效率高, 能耗低。

### FEATURES:

- AC three phase current motor drive, free of maintenance, and power saving.
- Micro-slip drawing, and effective increase of capstan using life and good quality of finished wire surface.
- High hardness, helical tooth and accurate grinding gear drive, with low noise and energy consumption.



## heavy rod wire drawing machine with annealer



### 技術參數 technical parameter:

| 名稱 name                         | DL400-7             | DL400-9       | DL400A-9              | DL400-11                       | DL400-13   |
|---------------------------------|---------------------|---------------|-----------------------|--------------------------------|------------|
| 進綫直徑 inlet size                 | max 8.0mm 銅杆 copper |               |                       |                                |            |
| 出綫範圍 outlet size                | 2.6-3.5mm           | 2.0-3.5mm     | 2.0-3.5mm             | 1.6-3.5mm                      | 1.2-3.5mm  |
| 最高機械速度 max speed                | 1000M/min           | 1200 M/min    | 1500M/min             | 1500M/min                      | 1500M/min  |
| 眼模外徑 die outer dia              | Max 55mm            |               |                       |                                |            |
| 機械延伸率 elongation                | 42%-21%             | 42%-21%       | 46-8%                 | 46-8%                          | 46-8%      |
| 拉絲輪直徑 capstan dia               | 400mm               | 400mm         | 前五個 500mm; 後面均為 400mm | 1" 5" 500mm; the rest of 400mm |            |
| 定速輪直徑 fix speed capstan dia     | 400mm               |               |                       |                                |            |
| 拉絲主機功率 main motor power         | AC132kw             | AC160kw       | AC160kw               | AC200kw                        | AC220kw    |
| 定速輪電機功率 fix speed motor power   | AC55kw              |               |                       |                                |            |
| 旋轉電機功率 rotating die motor power | AC400 W             |               |                       |                                |            |
| 油泵電機功率 pump motor power         | 1.1 kw              |               |                       |                                |            |
| 外型尺寸 overall dimensions         | 4.36x2.7x1.2M       | 5.36x2.7x1.2M | 6.8x1.8x1.2M          | 7.9x1.8x1.2M                   | 9x1.8x1.2M |
| 機器淨重 net weight                 | 7000kg              | 8500kg        | 13000kg               | 15000kg                        | 17000kg    |

### 生產綫徑範圍及速度 wire size and production speed:

| 規格 (mm) wire size | 生產TY硬綫速度 (m/min) TY hard wire production speed |         |          |          |          |
|-------------------|------------------------------------------------|---------|----------|----------|----------|
|                   | DL400-7                                        | DL400-9 | DL400A-9 | DL400-11 | DL400-13 |
| 1.2               |                                                |         |          |          | 1200     |
| 1.6               |                                                |         |          | 1200     | 1200     |
| 2.0               |                                                | 1000    | 1000     | 1000     | 1000     |
| 2.60              | 900                                            | 900     | 900      | 900      | 900      |
| 3.00              | 700                                            | 700     | 700      | 700      | 700      |
| 3.50              | 600                                            | 600     | 600      | 600      | 600      |



## H 卧式退火機 Horizontal Annealer

### TH5000 直流或交流退火機

- 接觸式退火，退火電流分直流或交流；
- 臥式結構，人性化設計，操作簡捷；
- 強力退火冷卻，滿足大電流高速生產；
- 鋼材退火後表面光亮，延伸率穩定，手感好。



### TH5000 DC OR AC ANNEALER

- Contact-type annealing, DC or AC current.
- Horizontal structure, humanity design and easy operation.
- Strong cooling system to meet large current and high speed production.
- Bright finished wire surface, stable elongation, and good quality.

### 技術參數 technical parameter:

| 設備型號 model                      | TH5000 直流退火機       | TH5000 交流退火機       |
|---------------------------------|--------------------|--------------------|
| 退火線徑範圍 wire size (mm)           | 1.2 ~ 3.5          | 1.2 ~ 3.5          |
| 機械速度 speed (M/min)              | Max1500            | Max1500            |
| 接觸輪直徑 capstan dia (mm)          | 450                | 450                |
| 最大退火電壓 max voltage              | 60DC               | 55AC               |
| 最大退火電流 max current              | 5000               | 4300               |
| 最大退火功率 max power                | 425kw              | 283kw              |
| 蒸汽發生器功率 steam generator power   | 18kw               | 18kw               |
| 外型尺寸 overall dimensions (LxWxH) | 4.25 x 1.25 x 2.5M | 4.25 x 1.25 x 2.5M |
| 重量 net weight                   | 約4500kg            | 約4500kg            |

### 生產速度 production speed:

| 線徑 wire size | 速度 speed  | 產能 production |
|--------------|-----------|---------------|
| 2.6mm        | 800 M/min | 2268kg/h      |
| 3.0mm        | 600 M/min | 2264kg/h      |

## C 梅花收綫機 Coiler Machine

### 特點:

- 自動不停機生產，運輸機構自動切換收綫欄架；
- 梅花排綫，排綫緊密度可調，收綫容量大；
- 後工序無故障高速放綫；
- 免維護三相交流電機驅動；
- 動平衡精度等級高，高速運行平穩。

### FEATURES

- Automatic non-stop production, automatic changing of taking-up wire drum.
- Adjustable tightness of winding and large taking-up capacity
- High speed and trouble-free paying-off
- Maintenance-free, 3-phase AC motor drive
- High grade of dynamic balance precision, and high-speed and stable running.



### 技術參數 technical parameter:

| 設備型號 model                       | WF800 梅花收綫機            | WF650 梅花收綫機           |
|----------------------------------|------------------------|-----------------------|
| 收綫範圍 (mm) wire size              | 1.2 ~ 4.0              | 0.8 ~ 2.0             |
| 機械速度 (M/min) speed               | Max1200                | Max1200               |
| 成圈鼓輪直徑 (mm) coiler dia           | 800                    | 650                   |
| 收綫欄架尺寸 (mm) taking-up stand size | 內Φ580 x 外Φ1050 x 高1600 | 內Φ480 x 外Φ850 x 高1540 |
| 收綫欄架容量 taking-up stand capacity  | Max 1800 kg            | Max 1000 kg           |
| 落綫電機功率 coiler motor power        | AC15kw                 | AC15kw                |
| 運盤電機功率 spooling motor power      | 0.75 kw                | 0.75 kw               |
| 外型尺寸 overall dimensions (LxWxH)  | 4.28 x 3.8 x 4.55M     | 2.6X3.8X3.7M          |
| 重量 net weight                    | 約5000kg                | 約3500kg               |

### 生產速度 production speed:

| 型號    | 線徑         | WF800      | WF650      |
|-------|------------|------------|------------|
| 2.6mm | 1000 M/min |            |            |
| 2.0mm | 1200 M/min | 800 M/min  |            |
| 1.2mm | 1200 M/min | 1200 M/min |            |
| 1.0mm |            |            | 1200 M/min |

## 退火大中拉機

### Intermediate/Large Wire Drawing Machine with Annealer

#### 機型特點:

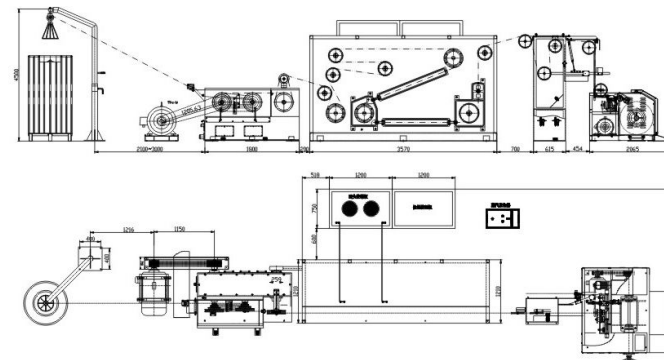
- 三相交流雙變頻驅動、控制;
- 臥式接觸式直流退火;
- 生產效率高、能耗小;
- 高精度齒輪傳動, 噪音低;
- 廣泛採用進口元器件, 可靠性高。

#### FEATURES:

- Drive and control by AC three phase dual-inverter.
- Horizontal contact-type DC annealing.
- High productivity, low power consumption.
- High precision gear drive with low noise.
- Widely use imported advanced parts and components to ensure high reliability.



## intermediate/large wire drawing machine with annealer



#### 技術參數 technical parameter:

| 產品型號 model                            | ZLT350/9                                                    |
|---------------------------------------|-------------------------------------------------------------|
| 電控方式 control system                   | 數顯按鈕 digital button                                         |
| 動力控制 power control                    | 雙變頻控制 dual-inverter                                         |
| 入線線徑 wire inlet dia.                  | 2.6-3.5mm                                                   |
| 成品線徑 wire finished dia.               | 1.0-2.76mm                                                  |
| 最大線速 max wire speed                   | 1200M/min                                                   |
| 最多眼模數 max dies no                     | 9                                                           |
| 傳動方式 transmission type                | 齒輪傳動 gear drive                                             |
| 機械延伸率 mechanical elongation           | 25%±16.7%                                                   |
| 伸線輪 drawing capstan                   | 碳化鎢 tungsten carbide                                        |
| 機體結構 construction of the machine body | 鑄造+鋼板焊接退火處理 casting+steel plate welding and annealing       |
| 最大伸線輪直徑 capstan dia.(max)             | 350mm                                                       |
| 定速輪直徑 fix speed capstan dia           | 350mm                                                       |
| 卷取軸尺寸 spool bobbin size               | SN500、SN630 (可選 optional)                                   |
| 上下軸方式 bobbin loading&unloading type   | 雙軸頂錐 bi-shafts cone                                         |
| 排線方式 traversing unit                  | AC減速電機+同步帶 AC reducer motor and timing belt                 |
| 伸線動力 main motor                       | AC55kw(6P)                                                  |
| 卷取動力 spooler motor                    | AC11kw                                                      |
| 修正系統 revise system                    | PID自動控制卷取 automatic control of take-up by PID               |
| 張力調整系統 tension control                | 氣缸(氣壓調整)擺臂式緩衝杆 buffer rod with air cylinder and rocket arm  |
| 最大載鋼量 max loading capacity            | 350kg(SN500) 700kg(SN630)                                   |
| 伸線潤滑方式 lubrication type               | 全浸式 lubrication by full immersion                           |
| 伸線油量 lubricant capacity               | 100L/min                                                    |
| 制動 brake                              | 碟式剎車 disk type brake                                        |
| 軸承潤滑方式 lubrication type for bearing   | 油泵強制給油式 pump enforce oil                                    |
| 退火控制方式 annealing control              | 四組電極輸出直流電壓輸出 4 poles DC current output                      |
| 退火容量 annealing capacity               | 150KVA                                                      |
| 退火電壓 annealing voltage                | Max. 65V                                                    |
| 退火電流 annealing current                | 2500A                                                       |
| 使用電源 power source                     | 380V/50/60Hz                                                |
| 總裝機功率 total power                     | 77kw+150KVA                                                 |
| 蒸汽用量 steam consumption                | 10-12m3/h, 0.2-0.3MPa (配9kw 蒸汽發生器 with 9kw steam generator) |
| 冷却水用量 cooling water consumption       | 15-20m3/h, 0.2-0.25MPa                                      |
| 壓縮空氣用量 air consumption                | 20-30m3/h, 0.4-0.6MPa                                       |
| 整機安裝尺寸 machine dimension (LxWxH)      | 14×3.5×4M                                                   |
| 重量(主機) gross weight                   | 7000kg                                                      |



## 退火中拉機

### Intermediate Wire Drawing Machine with Annealer

#### 機型特點:

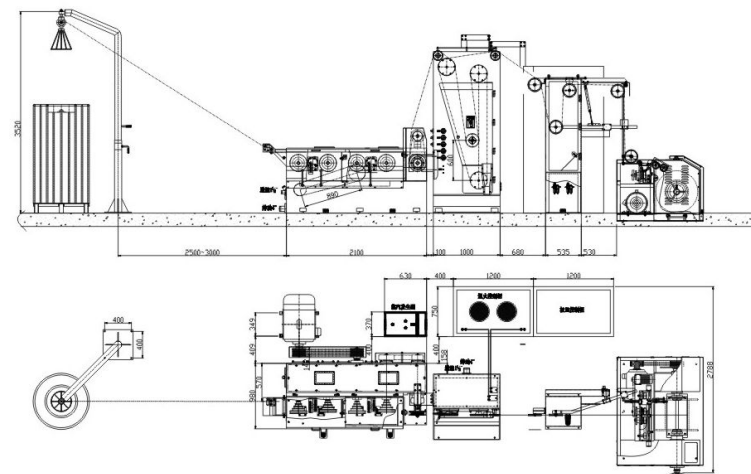
- 三相交流雙變頻驅動、控制;
- 接觸式直流退火;
- 生產效率高、能耗小;
- 高精度齒輪傳動，噪音低;
- 廣泛採用進口元器件，可靠性高。

#### FEATURES:

- Drive and control by AC three phase dual-inverter.
- Contact-type DC annealing.
- High productivity, low power consumption.
- High precision gear drive with low noise.
- Widely use imported advanced parts and components to ensure high reliability.



## intermediate wire drawing machine with annealer



#### 技術參數 technical parameter:

| 產品型號 model                            | ZLT250/17                                             | ZLT250/21   |
|---------------------------------------|-------------------------------------------------------|-------------|
| 動力控制 power control                    | 雙變頻器 dual-inverter                                    |             |
| 入綫綫徑 input wire                       | Φ2.6-Φ3.0mm                                           | Φ2.6-Φ3.0mm |
| 成品綫徑 output wire                      | Φ0.4-Φ1.2mm                                           | Φ0.4-Φ1.2mm |
| 最高綫速 max wire speed                   | 1800m/min                                             | 1800m/min   |
| 最多眼模數 max dies no                     | 17                                                    | 21          |
| 機械延伸率 mechanical elongation           | 25%+18.7%                                             | 18.4%+15%   |
| 機體結構 construction of the machine body | 鑄造+鋼板焊接退火處理 casting + steel plate welded and annealed |             |
| 伸綫輪 drawing capstan                   | 碳化鎢 tungsten carbide                                  |             |
| 定速輪直徑 final capstan                   | Φ250mm                                                |             |
| 伸綫/卷取動力 drawing/take-up motor         | AC55kw/AC11kw                                         |             |
| 收綫結構 take-up type                     | SN500 or SN630 Φ500 × Φ300 × 345                      |             |
| 傳動方式 transmission type                | 齒輪傳動 gear drive                                       |             |
| 張力調整方式 tension adjustment             | 氣缸擺臂式緩衝杆 buffer rod with air cylinder and rocker arm  |             |
| 修正系統 revise system                    | PID自動控制卷取 automatic control of take-up by PID         |             |
| 最大載鋼量 max loading capacity            | 200kg, (500kg)                                        |             |
| 電源 power supply                       | 380V, 50/60Hz                                         |             |
| 伸綫油量 lubricant capacity               | 100L/min                                              |             |
| 伸綫潤滑方式 lubrication type               | 全浸式 lubrication by full immersion                     |             |
| 制動 brake                              | 碟式剎車 disk type brake                                  |             |
| 退火容量 annealing capacity               | 85KVA                                                 |             |
| 退火電壓 annealing voltage                | Max. 65V                                              |             |
| 退火電流 annealing current                | 1000A                                                 |             |
| 蒸汽用量 steam consumption                | 10-12m3/h, 0.2-0.30MPa                                |             |
| 冷却水用量 cooling water consumption       | 12-18m3/h, 0.2-0.25MPa                                |             |
| 壓縮空氣用量 air consumption                | 20-30m3/h, 0.4-0.6MPa                                 |             |
| 外形尺寸 dimensions(LxWxH)                | 9 × 3 × 3.5M                                          |             |
| 重量 weight                             | 7000kg                                                |             |

## 中拉機

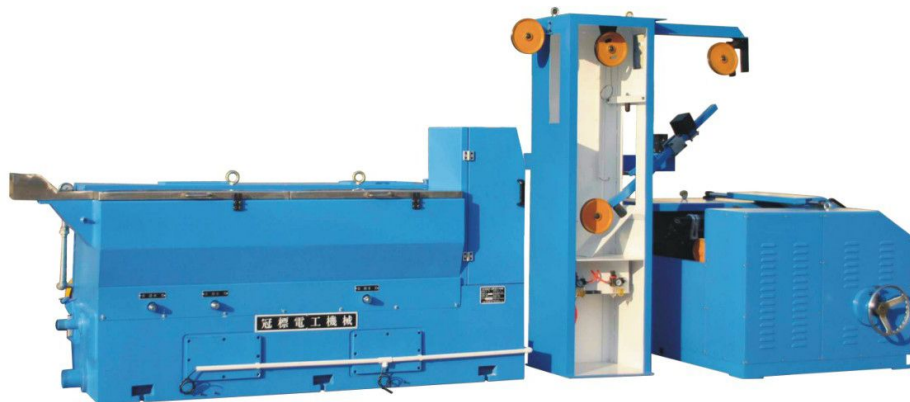
## Intermediate Wire Drawing Machine

### 機型特點：

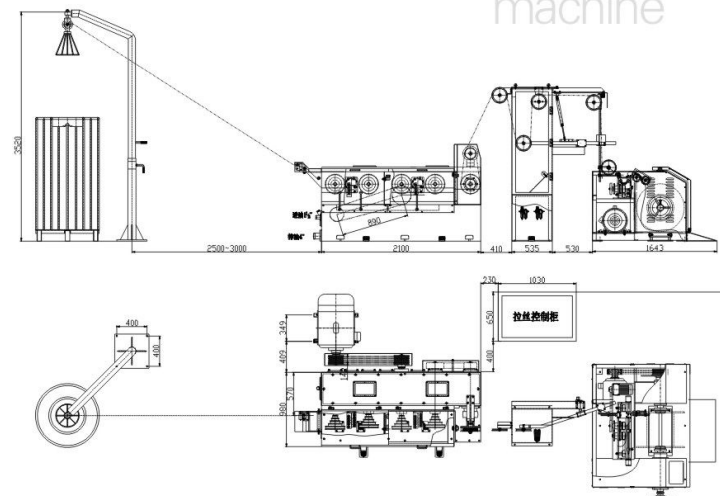
- 三相交流雙變頻驅動、控制；
- 生產效率高、能耗小；
- 高精度齒輪傳動，噪音低；
- 廣泛採用進口元器件，可靠性高。

### FEATURES:

- Drive and control by AC three phase dual-inverter.
- High productivity , low power consumption.
- High precision gear drive with low noise.
- Widely use imported advanced parts and components to ensure high reliability.



## intermediate wire drawing machine



**技術參數 technical parameter:**

| 產品型號model                             | ZL250/17                                                  | ZL250/21  |
|---------------------------------------|-----------------------------------------------------------|-----------|
| 電控方式control system                    | 數顯按鍵digital readout button                                |           |
| 動力控制power control                     | 雙變頻控制 dual-inverter                                       |           |
| 入綫纜徑wire inlet dia.                   | 2.6-3.0mm                                                 |           |
| 成品纜徑wire finished dia.                | 0.4-1.2mm                                                 |           |
| 最大纜速max wire speed                    | 1800M/min                                                 |           |
| 最多眼模數max dies no                      | 17                                                        | 21        |
| 傳動方式transmission type                 | 齒輪傳動 gear driver                                          |           |
| 機械延伸率mechanical elongation            | 25%+18.7                                                  | 18.4%+15% |
| 伸繞輪 drawing capstan                   | 碳化鎢 tungsten carbide                                      |           |
| 機體結構 construction of the machine body | 鑄造+鋼板焊接退火處理 casting+steel plate welding and annealing     |           |
| 最大伸繞輪直徑capstan dia.(max)              | 250mm                                                     |           |
| 定速輪直徑fix speed capstan dia            | 250mm                                                     |           |
| 卷取軸尺寸spool bobbin size                | SN500 or SN630 (可選 optional)                              |           |
| 上下軸方式bobbin loading&unloading type    | 雙軸頂錐 bi-shafts cone                                       |           |
| 排綫方式traversing unit                   | AC減速電機+同步帶 AC reducer motor and timing belt               |           |
| 伸繞動力main motor                        | AC45kw                                                    |           |
| 卷取動力spooler motor                     | AC11kw                                                    |           |
| 總裝機功率total power                      | 57kw                                                      |           |
| 修正系統revise system                     | PID自動控制卷取 automatic control of take-up by PID             |           |
| 張力調整系統tension control                 | 氣缸(氣壓調整)擺臂杆緩衝杆buffer rod with air cylinder and rocker arm |           |
| 最大載銅量max loading capacity             | 350kg(SN500) or 750kg(SN630)                              |           |
| 伸繞潤滑方式lubrication type                | 全浸式 lubrication by full immersion                         |           |
| 伸繞油量lubricant capacity                | 100L/min                                                  |           |
| 制動brake                               | 碟式剎車disk type brake                                       |           |
| 軸承潤滑方式lubrication type for bearing    | 油泵強制給油式 pump enforce oil                                  |           |
| 使用電源power source                      | 380V/50/60Hz                                              |           |
| 整機安裝尺寸machine dimension(LxWxH)        | 8×3×3.5M                                                  |           |
| 重量(主機) gross weight                   | 5000kg                                                    |           |

## 退火中小拉機

### Intermediate/Fine Wire Drawing Machine with Annealer

#### 機型特點:

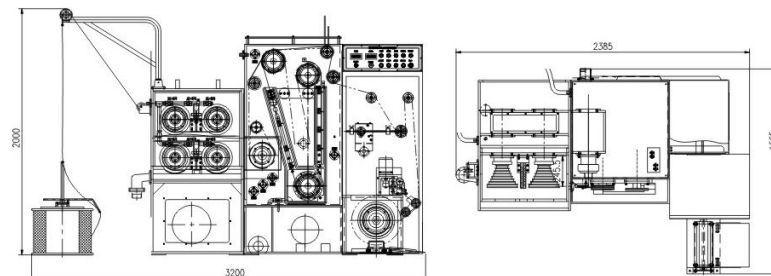
- 雙變頻器張力自動控制;
- 引取零滑動設計, 生產效率高; 成品線表面品質優良;
- 能耗低;
- 廣泛採用進口元器件, 可靠性高。

#### FEATURES:

- Automatic tension control by dual-inverter.
- Zero-slip pilot design, high productivity; good quality finished wire.
- Low power consumption.
- Widely use imported advanced parts and components to ensure high reliability.



## intermediate/fine wire drawing machine with annealer



#### 技術參數 technical parameter:

| 產品型號 model                          | 17DHT                                                          | SMD205T     | 24DHT      |
|-------------------------------------|----------------------------------------------------------------|-------------|------------|
| 電控方式 control system                 | 數顯按鈕 digital readout button                                    |             |            |
| 動力控制 power control                  | 雙變頻控制 dual-inverter                                            |             |            |
| 入線線徑 wire inlet dia.                | 0.75-1.6mm                                                     | 0.95-1.65mm | 0.5-1.2mm  |
| 成品線徑 wire finished dia.             | 0.2-0.5mm                                                      | 0.15-0.4mm  | 0.1-0.32mm |
| 最大線速 max wire speed                 | 2000 M/min                                                     | 2000 M/min  | 2000 M/min |
| 最多眼模數 max dies no                   | 17(18)                                                         | 24          | 24         |
| 傳動方式 transmission type              | 進口平皮帶傳動 imported advanced flat belt drive                      |             |            |
| 機械延伸率 square ratio of m/c           | 15%+8.7%                                                       | 15%+13%     | 13%+8.7%   |
| 伸線輪 capstan                         | 噴瓷 ceramic coated                                              |             |            |
| 機體結構 construction of the mc.        | 鋼板焊接、立型四軸 steel plated welded, vertical four shafts.           |             |            |
| 最大伸線輪直徑 capstan dia. (max)          | 242mm                                                          | 242mm       | 242mm      |
| 定速輪直徑 fix speed capstan dia         | 206mm                                                          |             |            |
| 卷取軸尺寸 spool bobbin size             | Φ300xΦ215x270mm                                                |             |            |
| 上下軸方式 bobbin loading&unloading type | 膨脹軸或單軸頂錐式 (可選) expansion shaft or single shaft cone (optional) |             |            |
| 最大載銷量 max loading capacity          | 50kg                                                           |             |            |
| 排線方式 traversing unit                | 同步電機+平皮帶 synchronous motor and flat belt                       |             |            |
| 伸線動力 main motor                     | 15kw                                                           | 15kw        | 11kw       |
| 卷取動力 spooler motor                  | 4kw                                                            | 4kw         | 4kw        |
| 修正系統 revise system                  | PID自動控制卷取 automatic control of take-up by PID                  |             |            |
| 張力調整系統 tension control              | 配重式張力輪 weight type tension pulley                              |             |            |
| 伸線潤滑方式 lubrication type             | 噴灑式 spraying                                                   |             |            |
| 制動 brake                            | 電磁剎車 magnetic brake                                            |             |            |
| 軸承潤滑方式 lubrication type for bearing | 無油式 without oil                                                |             |            |
| 退火控制方式 annealing control            | 三組電極輪直流通電輸出 3 poles DC current output                          |             |            |
| 退火容量 annealing capacity             | 30KVA                                                          | 21 or 30KVA | 21KVA      |
| 退火電壓 annealing voltage              | 0-57V                                                          | 0-57V       | 0-57V      |
| 退火電流 annealing current              | 400A                                                           | 400A        | 300A       |
| 總裝機功率 total power                   | 19kw+30KVA                                                     | 19kw+30KVA  | 15kw+30KVA |
| 使用電源 power source                   | 380V, 50/60Hz                                                  |             |            |
| 蒸汽用量 steam consumption              | 6-9 kg/h 0.2-0.3Mpa (配6kw 蒸汽發生器) (with 6kw steam generator)    |             |            |
| 冷却水用量 cooling water consumption     | 4-8m³/h 0.2-0.25MPa                                            |             |            |
| 壓縮空氣用量 air consumption              | 15-25m³/h 0.4-0.6Mpa                                           |             |            |
| 伸線油量 lubricant capacity             | >50L/min                                                       |             |            |
| 整機安裝尺寸 machine dimension (LxWxH)    | 3x2.5x2.3M                                                     |             |            |
| 重量 (主機) gross weight                | 約3000kg                                                        |             |            |



## 中小拉機

### Intermediate/Fine Wire Drawing Machine

#### 機型特點:

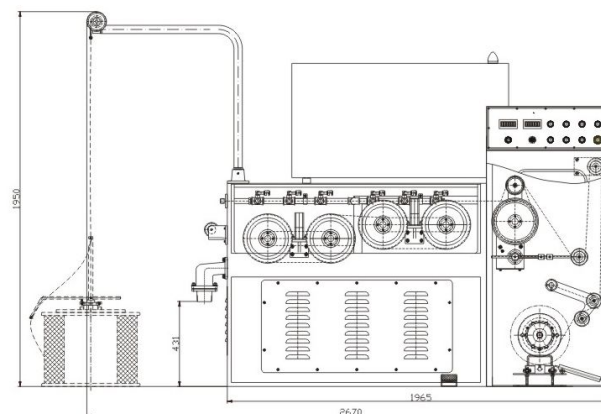
- 雙變頻器張力自動控制;
- 引取零滑動設計, 生產效率高; 成品線表面品質優良;
- 能耗低, 比傳統機型省電20%–25%;
- 廣泛採用進口元器件, 可靠性高。

#### FEATURES:

- Automatic tension control by dual-inverter.
- Zero-slip pilot design, high productivity; good quality finished wire.
- Low power consumption, a reduction of 20%–25% compared with the traditional type of machine.
- Widely use imported advanced parts and components to ensure high reliability.



## intermediate/fine wire drawing machine



#### 技術參數 technical parameter:

| 產品型號 model                            | 17DHA                                                                   | 18DHA      | SMD205      | SMD206     |
|---------------------------------------|-------------------------------------------------------------------------|------------|-------------|------------|
| 電控方式 control system                   | 數顯按鈕 或 LCD 人機界面 digital readout button or LCD human-computer interface. |            |             |            |
| 動力控制 power control                    | 雙變頻控制 dual-inverter                                                     |            |             |            |
| 入綫徑 wire inlet dia.                   | 0.75–1.6mm                                                              | 0.8–1.6mm  | 0.95–1.65mm | 1.0–1.65mm |
| 成品綫徑 wire finished dia.               | 0.2–0.5mm                                                               | 0.3–0.6mm  | 0.15–0.4mm  | 0.2–0.6mm  |
| 最大綫速 max wire speed                   | 2000 M/min                                                              | 1800 M/min | 2500 M/min  | 1800 M/min |
| 最多眼模數 max dies no                     | 17(18)                                                                  | 18         | 24          | 24         |
| 傳動方式 transmission type                | 進口平皮帶傳動 imported advanced flat belt drive                               |            |             |            |
| 機械延伸率 square ratio of m/c             | 15%+8.7%                                                                | 18%+13%    | 15%+13%     | 15%+13%    |
| 伸繞輪 capstan                           | 噴瓷 ceramic coated                                                       |            |             |            |
| 機體結構 construction of the machine      | 一體鑄造、水平四軸 one block casted, leveled four shafts.                        |            |             |            |
| 最大伸繞輪直徑 capstan dia. (max)            | 242mm                                                                   | 242mm      | 242mm       | 226mm      |
| 定速輪直徑 fix speed capstan dia           | 206mm                                                                   |            |             |            |
| 卷取軸尺寸 spool size                      | Φ300xΦ215x270mm                                                         |            |             |            |
| 上下軸方式 bobbin loading & unloading type | 膨脹軸或單軸頂錐式 (可選) expansion shaft or single cone                           |            |             |            |
| 最大載重量 max loading capacity            | 50kg                                                                    |            |             |            |
| 排綫方式 traversing unit                  | 同步電機+平皮帶 synchronous motor and flat belt                                |            |             |            |
| 伸繞動力 main motor                       | 15kw                                                                    | 18.5kw     | 15kw        | 18.5kw     |
| 卷取動力 spooler motor                    | 4kw                                                                     | 4kw        | 4kw         | 4kw        |
| 修正系統 revise system                    | PID 自動控制卷取 automatic control of take-up by PID                          |            |             |            |
| 張力調整系統 tension control                | 配重式張力輪 weight type tension pulley                                       |            |             |            |
| 伸繞潤滑方式 lubrication type               | 噴濺式 spraying                                                            |            |             |            |
| 制動 brake                              | 電磁制動 magnetic brake                                                     |            |             |            |
| 軸承潤滑方式 bearing lubrication type       | 無油式 without oil                                                         |            |             |            |
| 使用電源 power source                     | 380V, 50/60Hz                                                           |            |             |            |
| 伸繞油量 lubricant capacity               | >50L/min                                                                |            |             |            |
| 整機尺寸 machine dimension (LxWxH)        | 2.7 x 1.6 x 2M                                                          |            |             |            |
| 重量 (主機) gross weight                  | 約 2100kg                                                                |            |             |            |

## F 退火小拉機 Fine Wire Drawing Machine with Annealer

### 機型特點:

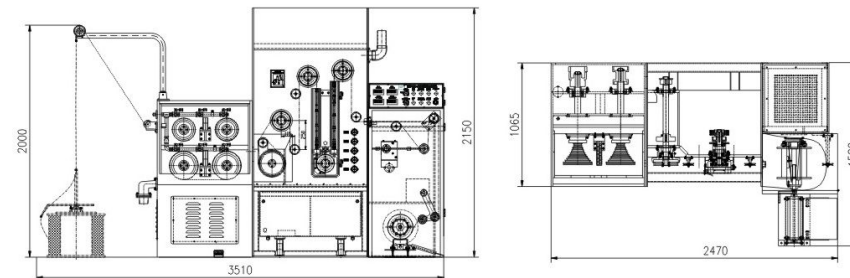
- 雙變頻器張力自動控制;
- 引取零滑動設計, 生產效率高; 成品線表面品質優良;
- 能耗低, 比傳統機型省電20%~25%;
- 廣泛採用進口元器件, 可靠性高。

### FEATURES:

- Automatic tension control by dual-inverter.
- Zero-slip pilot design, high productivity; good quality finished wire.
- Low power consumption, a reduction of 20%~25% compared with the traditional type of machine.
- Widely use imported advanced parts and components to ensure high reliability.



## fine wire drawing Machine with annealer



### 技術參數 technical parameter:

| 產品型號 model                             | 24DHT-VG150                                                    |
|----------------------------------------|----------------------------------------------------------------|
| 電控方式 control system                    | 數顯按鈕 digital readout button                                    |
| 動力控制 power control                     | 雙變頻控制 dual-inverter                                            |
| 入綫綫徑 wire inlet dia.                   | 0.5-1.2mm                                                      |
| 成品綫徑 wire finished dia.                | 0.1-0.32mm                                                     |
| 最大綫速 max wire speed                    | 2000 M/min                                                     |
| 最多眼模數 max dies no                      | 24                                                             |
| 傳動方式 transmission type                 | 進口平皮帶傳動 imported advanced flat belt drive                      |
| 機械延伸率 square ratio of m/c              | 13%+8.7%                                                       |
| 伸綫輪 capstan                            | 噴瓷 ceramic coated                                              |
| 機體結構成 construction of the machine body | 鋼板焊接、立型四軸 steel plate welded, vertical four shafts             |
| 最大伸綫輪直徑 capstan dia. (max)             | 242mm                                                          |
| 定速輪直徑 fix speed capstan dia            | 206mm                                                          |
| 卷取軸尺寸 spool bobbin size                | Φ300xΦ215x270mm                                                |
| 上下軸方式 bobbin loading&unloading type    | 膨脹軸或單軸頂錐式 (可選) expansion shaft or single shaft cone (optional) |
| 最大載鋼量 max loading capacity             | 50kg                                                           |
| 排綫方式 traversing unit                   | 同步電機+平皮帶 synchronous motor and flat belt                       |
| 伸綫動力 main motor                        | 11kw                                                           |
| 卷取動力 spooler motor                     | 4kw                                                            |
| 修正系統 revise system                     | PID自動控制卷取 automatic control of take-up by PID                  |
| 張力調整系統 tension control                 | 配重式張力輪 weight type tension pulley                              |
| 伸綫潤滑方式 lubrication type                | 噴灑式 spraying                                                   |
| 制動 brake                               | 電磁制動 magnetic brake                                            |
| 軸承潤滑方式 lubrication type for bearing    | 無油式 without oil                                                |
| 退火控制方式 annealing control               | 四組電極輪直流電壓輸出 4 poles DC current output                          |
| 退火容量 annealing capacity                | 21KVA                                                          |
| 退火電壓 annealing voltage                 | 0-57V                                                          |
| 退火電流 annealing current                 | 300A                                                           |
| 總裝機功率 total power                      | 15kw+21KVA                                                     |
| 使用電源 power source                      | 380V, 50/60HZ                                                  |
| 蒸汽用量 steam consumption                 | 6-9 kg/h 0.2~0.3Mpa (配6KW 蒸汽發生器) (with 6KW steam generator)    |
| 冷却水用量 cooling water consumption        | 4-8m3/h, 0.2~0.25Mpa (內置水箱 with tank inside)                   |
| 壓縮空氣用量 air consumption                 | 15~25m3/h 0.4~0.6Mpa                                           |
| 伸綫油量 lubricant capacity                | >50L/min                                                       |
| 整機安裝尺寸 machine dimension (LxWxH)       | 4.7×2.5×2.3M                                                   |
| 重量 (主機) gross weight                   | 約3000kg                                                        |

## H 卧式雙變頻小拉機 Horizontal Fine Wire Drawing Machine with Dual-inverter

### 機型特點:

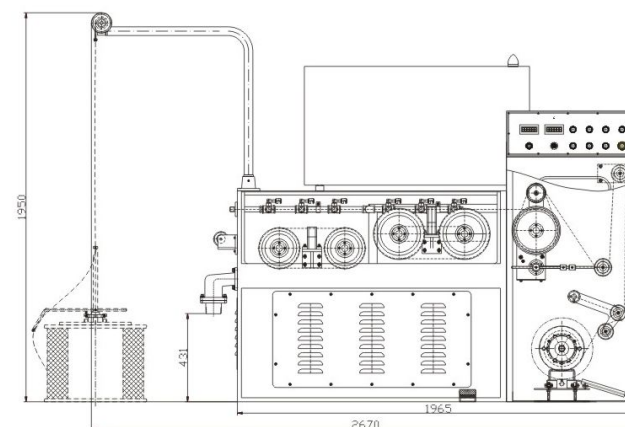
- 雙變頻器、張力自動控制;
- 引取零滑動設計, 生產率高; 成品線表面品質優良;
- 能耗低, 比傳統機型省電20%–25%, 可降低生產成本;
- 廣泛採用進口元器件, 可靠性高。

### FEATURES:

- Automatic tension control by dual-inverter.
- Zero-slip pilot design, high productivity; good quality finished wire.
- Low power consumption, a reduction of 20%–25% compared with the traditional type of machine, reduced production costs.
- Widely use imported advanced parts and components to ensure high reliability.



## horizontal fine wire drawing machine with dual-inverter



### 技術參數 technical parameter:

| 產品型號 model                            | 24DHA                                         | 24DHB           |
|---------------------------------------|-----------------------------------------------|-----------------|
| 動力控制 power control                    | 雙變頻器 dual-inverter                            |                 |
| 入綫綫徑 input wire                       | Φ0.5 ~ Φ1.2mm                                 | Φ0.5 ~ Φ1.2mm   |
| 成品綫徑 output wire                      | Φ0.08 ~ Φ0.32mm                               | Φ0.08 ~ Φ0.32mm |
| 最高綫速 max wire speed                   | 2500M/min                                     | 2500M/min       |
| 最多眼模數 max dies no                     | 24                                            | 24              |
| 機械延伸率 mechanical elongation           | 15%+8.7%                                      | 13%+8.7%        |
| 機體結構 construction of the machine body | 一體鑄造 monoblock casting                        |                 |
| 伸綫輪 drawing capstan                   | 進口陶瓷 imported high quality ceramic            |                 |
| 定速輪直徑 final capstan                   | Φ206                                          |                 |
| 卷取軸尺寸 take-up reel size               | Φ300 × Φ215 × 250 mm                          |                 |
| 排綫方式 traverse type                    | 平皮帶 flat belt                                 |                 |
| 伸綫、卷取動力 drawing/take-up motor         | AC11kw/AC4kw                                  |                 |
| 傳動方式 transmission type                | 進口平皮帶傳動 imported advanced flat belt drive     |                 |
| 修正系統 revise system                    | PID自動控制卷取 automatic control of take-up by PID |                 |
| 張力調整方式 tension adjustment             | 配重式張力輪 weight type tension pulley             |                 |
| 最大載鋼量 max loading capacity            | 50kg                                          |                 |
| 電源 power supply                       | 380V, 50/60Hz                                 |                 |
| 伸綫油量 lubricant capacity               | 40L/min                                       |                 |
| 伸綫潤滑方式 lubrication type               | 噴灑式 spraying                                  |                 |
| 制動 brake                              | 電磁剎車 magnetic brake                           |                 |
| 外形尺寸 dimensions (L × W × H)           | 2.67 × 1.5 × 1.95M                            |                 |
| 重量 weight                             | 約2000kg                                       |                 |



# H 卧式雙變頻微拉機

## Horizontal Fine Wire Drawing Machine with Dual-inverter

### 機型特點:

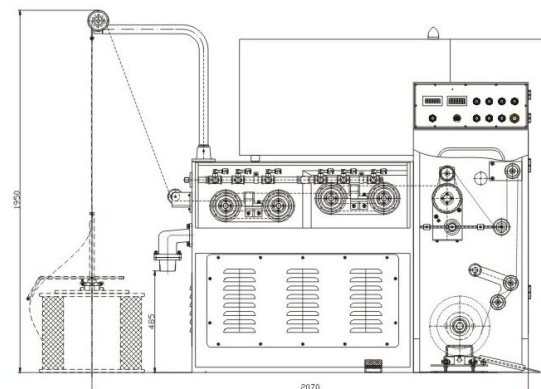
- 雙變頻器、張力自動控制。
- 引取零滑動設計，生產效率高，成品線表面品質優良。
- 比傳統機型省電20%–25%，耗能低、可大幅度降低生產成本。
- 廣泛採用進口元器件，可靠性高。

### FEATURES:

- Automatic tension control by dual-inverter.
- Zero-slip pilot design, high productivity, high quality finished wire.
- Low power consumption: a reduction of 20% – 25% compared with the traditional type of machine, greatly reduced production costs.
- Widely use imported advanced parts and components to ensure high reliability.



## horizontal fine wire drawing machine with dual-inverter



### 技術參數 technical parameter:

| 產品型號model                              | SMD120/24                                                            | SMD100/24            |
|----------------------------------------|----------------------------------------------------------------------|----------------------|
| 電控方式control system                     | 數顯按鈕 或LCD人機界面 digital readout button or LCD human-computer interface |                      |
| 動力控制power control                      | 雙變頻控制dual-inverter                                                   |                      |
| 入線線徑wire inlet dia.                    | 0.15–0.45mm                                                          | 0.12–0.35mm          |
| 成品線徑wire finished dia.                 | 0.05–0.12mm                                                          | 0.04–0.10mm          |
| 最大線速max wire speed                     | 2000M/min                                                            |                      |
| 最多眼模數max dies no                       | 24                                                                   |                      |
| 傳動方式transmission type                  | 進口平皮帶傳動imported advanced flat belt drive                             |                      |
| 機械延伸率square ratio of m/c               | 10%+7%                                                               | 8%+7%                |
| 伸線輪capstan                             | 噴瓷ceramic coated                                                     |                      |
| 機體結構成 construction of the machine body | 一體鑄造、水平四軸 one block casted, leveled four shafts.                     |                      |
| 最大伸線輪直徑capstan dia. (max)              | 120mm                                                                | 100mm                |
| 定速輪直徑fix speed capstan dia             | 120mm                                                                | 100mm                |
| 卷取軸尺寸spool bobbin size                 | Φ260xΦ 215x216mm–Φ80                                                 | Φ220xΦ 178x216mm–Φ80 |
| 上下軸方式 bobbin loading&unloading type    | 單軸頂錐式 single shaft cone                                              |                      |
| 最大載重量 max loading capacity             | 25kg                                                                 | 20kg                 |
| 排線方式traversing unit                    | 同步電機+平皮帶 synchronous motor and flat belt                             |                      |
| 伸線動力main motor                         | 4kw                                                                  |                      |
| 卷取動力spooler motor                      | 2.2kw                                                                | 2.2kw                |
| 修正系統revise system                      | PID自動控制卷取 automatic control of take-up by PID                        |                      |
| 張力調整系統tension control                  | 配重式張力輪weight type tension pulley                                     |                      |
| 伸線潤滑方式lubrication type                 | 噴灑式spraying                                                          |                      |
| 制動brake                                | 電磁剎車magnetic brake                                                   |                      |
| 軸承潤滑方式lubrication type for bearing     | 無油式without oil                                                       |                      |
| 使用電源power source                       | 380V 50/60Hz                                                         |                      |
| 伸線油量lubricant capacity                 | 30L/min                                                              |                      |
| 整機安裝尺寸machine dimension (LxWxH)        | 2.6 x 1.55 x 1.6M                                                    |                      |
| 重量 (主機) gross weight                   | 1500kg                                                               |                      |

## V 立式盤動微細拉機 Vertical Super-fine Wire Drawing Machine

### 機型特點:

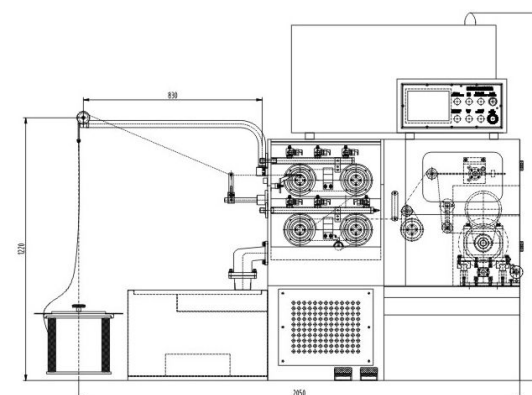
- 雙變頻器、張力自動控制;
- 引取零滑動設計, 生產效率高, 成品線表面品質優良;
- 比傳統機型省電20%–25%, 耗能低、可大幅度降低生產成本;
- 廣泛採用進口元器件, 可靠性高。

### FEATURES:

- Automatic tension control by dual-inverter.
- Zero-slip pilot design, high productivity, high quality finished wire.
- Low power consumption: a reduction of 20% – 25% compared with the traditional type of machine, greatly reducing production costs.
- Widely use imported advanced parts and components to ensure high reliability.



## vertical super-fine wire drawing machine



### 技術參數 technical parameter:

| 產品型號 model                            | SMD100/24A                                                     |
|---------------------------------------|----------------------------------------------------------------|
| 電控方式 control system                   | LCD人機界面 LCD human-computer interface                           |
| 動力控制 power control                    | 雙變頻控制 dual-inverter                                            |
| 入線線徑 wire inlet dia.                  | 0.08–0.20 mm                                                   |
| 成品線徑 wire finished dia.               | 0.025–0.06 mm                                                  |
| 最大線速 max wire speed                   | 2000M/min                                                      |
| 最多眼模數 max dies no                     | 24                                                             |
| 傳動方式 transmission type                | 進口平皮帶傳動 imported advanced flat belt drive                      |
| 機械延伸率 square ratio of m/c             | 8%+7%                                                          |
| 伸線輪 capstan                           | 噴瓷 ceramic coated                                              |
| 機體結構 construction of the machine body | 鋼板焊接退火、立型四軸 steel plate welded, vertical four shafts interface |
| 最大伸線輪直徑 capstan dia. (max)            | 100mm                                                          |
| 定速輪直徑 fix speed capstan dia           | 100mm                                                          |
| 卷取軸尺寸 spool bobbin size               | Φ190xΦ157x198mm–Φ80                                            |
| 上下軸方式 bobbin loading&unloading type   | 單軸頂錐式 single shaft cone                                        |
| 最大載鋼量 max loading capacity            | 12kg                                                           |
| 排線方式 traversing unit                  | 同步電機+平皮帶 synchronous motor and flat belt                       |
| 伸線動力 main motor                       | 4kw                                                            |
| 卷取動力 spooler motor                    | 1.5kw                                                          |
| 修正系統 revise system                    | PID自動控制卷取 automatic control of take-up by PID                  |
| 張力調整系統 tension control                | 配重式張力輪 weight type tension pulley                              |
| 伸線潤滑方式 lubrication type               | 噴灑式 spraying                                                   |
| 制動 brake                              | 電磁剎車 magnetic brake                                            |
| 軸承潤滑方式 lubrication type for bearing   | 無油式 without oil                                                |
| 使用電源 power source                     | 380V 50/60Hz                                                   |
| 伸線油量 lubricant capacity               | 20L/min (配水箱 with tank inside)                                 |
| 整機安裝尺寸 machine dimension (LxWxH)      | 2.25 x 1.06 x 1.7M                                             |
| 重量 (主機) gross weight                  | 1500kg                                                         |

# A退火(鍍錫)機(QDX-40) Annealing (Tinning) Machine

annealing  
(tinning) machine

## 機型特點:

- 退火爐內爐溫分布均勻，節能效果良好；
- 產品可多樣化同時生產；
- 雙層式卷取機設計，節省用地面積。

## FEATURES:

- Evenly distributed temperature in the annealing furnace ensures effective energy saving.
- Simultaneous processing of a variety of products.
- Double-layer take-up design, reduced floor space.

## 技術參數 technical parameter:

| 產品型號 model                        | QDX-40                                                                                        |
|-----------------------------------|-----------------------------------------------------------------------------------------------|
| 用途 application                    | 用于圓鋼綫軟化、鍍錫 tinning the round copper wire                                                      |
| 生產頭數 number of wires processed    | 40                                                                                            |
| 生產綫徑 wire to processed.           | 0.08-0.32mm                                                                                   |
| 最大綫速 max wire speed               | 300 M/min                                                                                     |
| 放綫方式 pay-off mode                 | 毛刷放綫或張力綫放綫 curl flyer or constant tension pay-off                                             |
| 鍍錫方式 tinning mode                 | 單、雙爐熱鍍（橫鍍）模具刮錫 single/double furnace hot dip (transverse tin plating) with mould tin-scraping |
| 放綫盤尺寸 paying-off bobbin size      | Φ300mm                                                                                        |
| 收綫方式 taking-up mode               | 單盤力矩收綫 single bobbin torque taking-up                                                         |
| 軟化方式 soften mode                  | 水封電熱連續軟化 water seal electrical heating continuous soften                                      |
| 收綫盤尺寸 taking-up bobbin size       | PT10-PT25                                                                                     |
| 裝機動力功率 installation motion power  | 14kw                                                                                          |
| 裝機電熱功率 installation heating power | 35kw                                                                                          |
| 總裝機功率 total installation power    | 49kw                                                                                          |
| 排綫方式 traversing unit              | 一體排綫齒輪傳動 castinblock gear traverse                                                            |
| 整機安裝尺寸 machine dimension(LxWxH)   | 20x1.6x2.2M                                                                                   |
| 重量 gross weight                   | 約4500kg                                                                                       |

