

HIMAX SF1

自動螺絲供給機 AUTOMATIC SCREW FEEDER

使用說明 Operating Instruction



謝謝您選購本產品！

本產品屬於電氣自動化設備，請嚴格遵守使用規範。
使用之前請仔細閱讀此說明書，閱讀之後請妥善保管。
如遇任何不能解決的問題，請聯系經銷商。



敬告

WARNING

Thank you for purchasing this product.

The product is electrical automation equipment, Please strictly abide by the use of norms.

Please read this manual before using the machine, and keep it safely. In case of any insurmountable problems, please contact the dealer.

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1.可調型,適用範圍廣

軌道可自由調節，廣泛適用多種類型和長度的螺釘,如M1.0-M5.0標準螺絲 (1.0 1.2 1.4 1.7 2.0 2.3 2.6 3.0 3.5 4.0 5.0),特殊螺絲, 1:1短螺絲、帶墊片螺絲等。

2.運轉流暢

螺絲在滾筒內運動落鬥，凡是未進入軌道的螺絲都會被清除到滾筒內進入下個循環，無卡螺絲現象，取點位置不會前後抖動。

3.工作速率可調

送料與振動驅動獨立控制，可自由設定理想的延時停止時間,以調節螺絲進料速度快慢，適合多種作業。

4.操作簡單

即使生手也能馬上學會操作方法不管是公制規格還是英制規格,皆能操作自如,簡單易懂。

5.可大幅提高生產率

不必對正螺釘頭位置,比起傳統螺絲盤，每顆螺釘可節省1.4秒，生產率提高4倍！

6.有計數功能(部分型號)

計數功能自動報警、循環，帶數字顯示面板，一目了然。

7.有故障報警功能

當非正常情況產生時螺絲機會自動啟動故障報警裝置。

8.體積小巧，不占空間

1. Adjustable for a wide range.

The track can adjust freely to suit many kinds of types screws, like M1.0-M5.0 standard screw (1.0 1.2 1.4 1.7 2.0 2.3 2.6 3.0 3.5 4.0 5.0), special screw, 1: 1 short screw, filling piece screw and so on.

2. Running smoothly.

The screws movement and roll down inside the bucket, all the screws did not enter the track will be cleared to enter the next circle, Screws will not be stuck, the check point will not vibrate.

3. Working speed adjustable

Feeding system and drive system independent control, set the time delay freely to adjust the feed speed, suits many kinds of works.

4. Simple operation

Even novices can operate freely, whether metric specifications or british specifications, all easily to understand.

5. Can increase productivity significantly

It is unnecessary to target the screw cap, compared to screw plate, each screw can save 1.4 seconds, productivity increased by 4 times!

6. Statistical function (partial models)

When the settings achieved, the machine will automatic alarm and cycle, it is very clear to see with digital display panel.

7. Automatic alarm function

When non-normal condition occurs, the machine can automatic alarm.

8. The volume is exquisite, does not occupy the space.

螺絲機參數

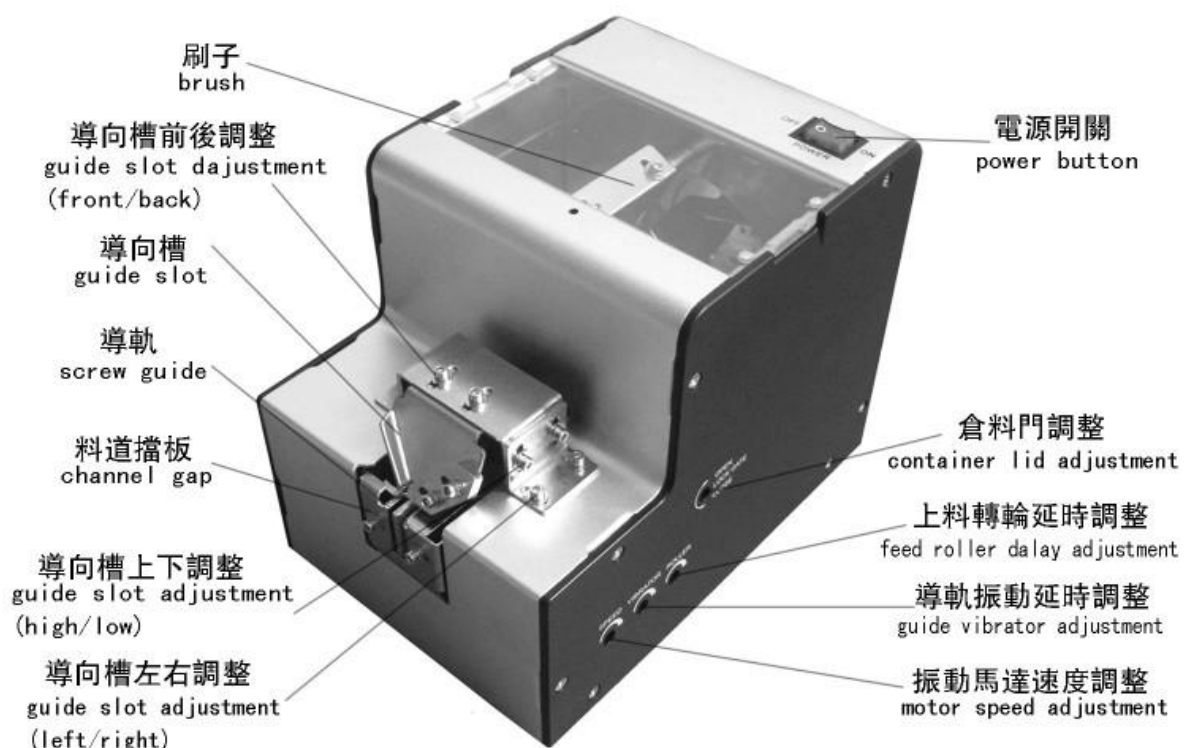
Parameters

螺釘頭: 適合各種型號螺絲
(最長L=20mm)
輸出速度: 2粒/秒
輸入電壓: 直流12V/550mA
產品尺寸: 180mm × 125mm ×
150mm (長 × 寬 × 高)
淨重: 約2.5kg
附帶配件: 操作指南, 直流電源
(輸入180-220V, 輸出
DC12V), 內六角扳手

Screw head: Suits each type of
screw (Lmax=20mm)
Output speed: 2 screw / s
Input voltage: DC 12V/550mA
Product size: 180mm × 125mm
× 150mm (L * W * H)
Net weight: About 2.5kg
Accessories: Operational Guidelines,
DC power supply
(inputs 180-220V,
outputs DC12V),
Inward hexagonal wrench

部件及功能描述

Description of parts and functions



(注:帶計數功能螺絲機在此外形上增加數字顯示面板和數量調節鍵,其他部分相同.)
(construction: Statistical function machine increase number-display panels and
number-adjust keys, the other parts of the same.)

使用方法

- 1.調整好適合的參數（調整方法見下面）。
- 2.打開倉蓋，將螺釘成批倒入供料室。
- 3.打開電源,把批頭放入批頭導向槽處,順着導向下滑,然後朝面前拉出螺釘即可。

Operations

1. Adjusts parameter suitable (The methods will be told next).
2. Open the lid, pours into groups the bolt for the material room.
3. Turn on the power button, put the electric screwdriver head into guide slot, down along the guide slot, pull out the screw bolt go straight.

調節方法

1.料道調節



用內六角扳手鬆開料道擋板上兩顆螺絲，拉出導軌

Release the two screws on apron using inward hexagon wrench, pull out guide.



一端通過調整三個螺絲的位置來調整軌道寬窄,另一端通過加減小片來調整間隙,以此來適應不同大小的螺釘,調好後把螺絲鎖緊。

One end by adjusting the location of the three screws to adjust the track width. the other side by increases or reduce the number of small pices to adjust the gap, in order to adapt to different sizes of screws. After adjustment locking screw.





根据螺钉大小调整刷子
高低位置, 一般情况下
调整为前低后高

Adjust the brush position
according to the screw
size. Under normal
circumstances, after the
former high-low.



速度调节键

Speed adjust
-ment buttons

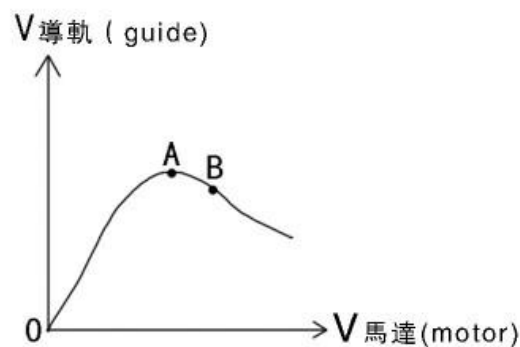


调节工具

Adjustment tools

2. 速度調整

(1) 振動馬達速度 (SPEED) 特性:



马达速度和导轨速度关系

2. speed adjustment

(1) Characteristics of motor
speed:

The connection between
motor speed and guide
speed.

(2) 上料轉輪延時 (ROLLER) 調整:

當螺釘較大或螺釘外形不利進入
導軌槽時, 將轉輪延時調長,
反之螺釘較小時調短。

(2) Roller delay adjustment:

When the screw is large or
not conducive to access
to rail, increase the roller
delay, in contrast reduce it.

(3) 導軌振動延時 (VIBRATION)

調整:

同樣, 螺釘較大或外形不利進入
導軌槽時, 將振動延時調長,
反之, 螺釘較小時調短。

(3) Guide vibration delay adjustment:

The same, when the screw is
large or not conducive to access
to rail, increase the roller delay,
in contrast reduce it.

1. 數量設定

打開電源,按下功能鍵(右1鍵)並保持3秒,燈閃爍,這時按向上鍵(“▲”鍵)或向下鍵(“▼”鍵)來設定數量,0-9999任意設定。

2. 自動/手動設定

按下功能鍵並保持3秒,燈閃爍,再次按下功能鍵"1"是自動,"2"是手動,"3"是正常計數沒有報警功能。(自動狀態下,當取得螺絲數量達設定數值時報警器報警後計數器自動清零,進入下個循環。手動狀態下報警後需按下向下方向鍵盤方可清零進入下個循環。)

3. 數量顯示

按下功能鍵並保持3秒,燈閃爍,再重複此動作是自動/手動設定,第3次重複此動作即進入數量顯示狀態。

1. Quantity set

Turn on the power button, presses down the functional key (right 1) and maintains 3 seconds, the lamp twinkle, by now presses the upward or downward key to set number. The scope of number is 0-9999.

2. Automatic/manual enactment

Presses down the functional key and maintains 3 seconds, the lamp twinkle, presses down functional key once more, "1" is automatic, "2" is manual, "3" is the normal computation number no warning function. (Under automatic condition, when obtains the screw quantity to reach the set value, alarm apparatus warning, the counter resets automatically and enters next cycle. Under manual condition, when alarm warning, you should press the downward key then the counter resets automatically and enters next cycle.)

3. Quantity demonstration

Presses down the functional key and maintains 3 seconds, the lamp twinkle, repeat this action into automatic/manual enactment status, repeat this action again into quantity display status.

注 意 事 项

为了使取螺钉更轻松，还应注意以下五点：

1. 导向槽必须与导轨对中，并且导向槽必须将螺钉帽压住；
2. 导向槽“V”槽处前后位置必须合适，以刚好露出螺帽十字槽为宜；
3. 建议使电批旋转着取螺钉，这样将会更省力。
4. 运动部件每隔两个月应适当加注润滑油，以使运转正常。
5. 当出现卡螺丝、报警器异常报警、产生难闻气味等异常情况时，应立即停止使用，关掉电源，检查调整。如遇自己不能解决的故障，请联系经销商维修。

Pecautions

In order to check screw more easier, you need to pay attention to the following five-point.

1. The guide slot and the guide rail must be a central line , and the guide slot must suppress the Screw cap.
2. The guide slot “V” around the trough place position must be appropriate, take just exposed the cross slot of screw cap as suitably.
3. Suggested that keep the electric screwdriver revolving to take the bolt,like this will more labor-saving.
4. Every two months, moving parts should be added the appropriate lubricants, in order to maintain the normal operation.
5. When troubles appeared,such as screw struk, abnormal alarm , un-pleasant smell emanated, you should stop using and turn off the power immediately. Check the pro-blems and adjust it. If you are unable to resolve the fault, please contact the dealer.

| 故障 | 原因 | 處理方法 |
|-----------|--------------------------------|-----------------------------|
| 螺絲機沒電 | 1.電源壞 2.開光壞 | 檢查更新 |
| 電源燈亮機器不工作 | 1.出口感應器沒對好位置或有物品擋住 2.馬達電源綫斷 | 1.檢查或調整 2.重新焊接 |
| 料道卡螺絲 | 刷子高低、料道間隙、壓板位置未調好 | 檢查後做相應調整 |
| 料倉漏螺絲 | 料倉擋班上下左右位置未調整好 | 調整擋板位置 |
| 出口一直振動不停 | 1.直振送料延時太長 2.出口感應器位置不合適 | 做相應調整 |
| 出螺絲太慢 | 送料供料速度慢,延時時間短 | 調整馬達速度 (SPEED), 調長送料供料延時 |

| Fault | Reasons | Solution |
|---|--|---|
| No power | Power supply or switch damaged | Check for updates |
| Indicator lit but the machine does not work | 1.Sensor located in wrong location or was blocked 2.The power cord of motor is broken | 1.Check or adjust 2.Re-welding |
| screw was stuck in Channel | Channel gap, platen or brush position is wrong | Check and adjust |
| Screws leak out from material container | The apron of material container located in wrong location | Adjust the apron position |
| Export vibrating and no stop | 1.Feeding delay is too long 2.Sensor located in wrong location | Check and adjust |
| Screw transportation is too slow | Feeding speed is slow and delay is too short | adjust the motor speed, increase the feeding delay |

1# 電源開關
Power switch

2# 送料導槽
Feeding trough

3# 毛刷
Brush

4# 棘爪彈簧
Pawl spring

5# 棘爪齒輪
Pawl gear

6# 毛刷推板
Brush-pushing board

7# 觸發器
Trigger

8# 電動馬達
Electric motor

9# 毛刷齒輪
Brush gear

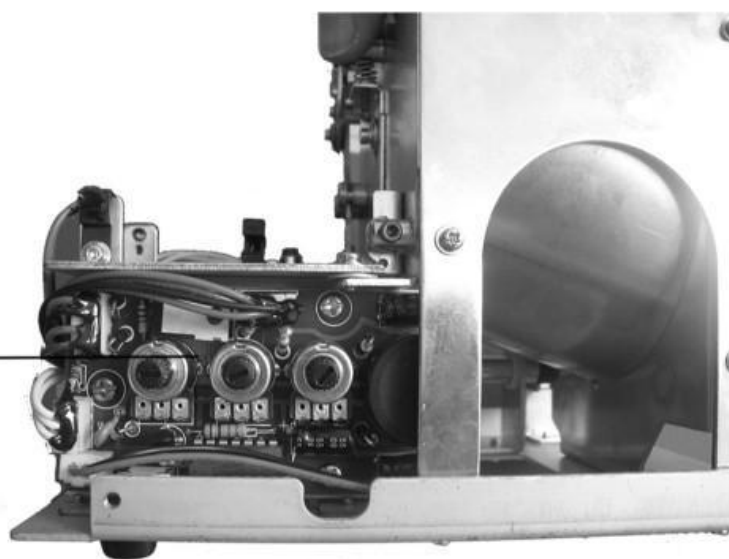
10# 料倉門高度調節板
Hopper door height
adjustment plate

11# 料倉門調節螺絲
Hopper door
adjustment screw

12# 料倉門寬度調節板
Hopper door width
adjustment plate

13# 感應頭
Sensor head

14# 電路板
Circuit board



15# 批頭導向槽組件
Screwdriver guide slot components



16# 螺絲導軌
Screw guide





17# 導軌調節小墊片
Small pieces



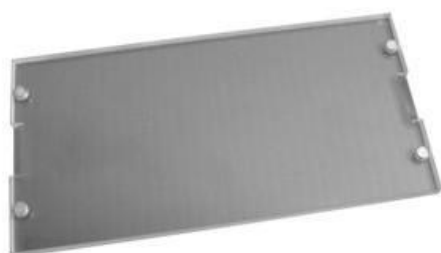
18# 螺絲制動器
Screw brakes



19# 電源
Power supply



20# 內六角扳手
Inword hexagon wrench



21# 料倉蓋
Container lid



22# 螺絲高度調節片
screw height adjustment Piece