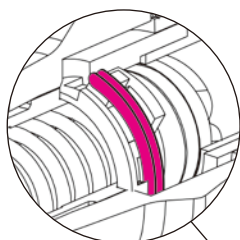


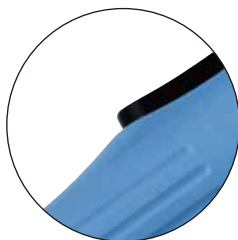
# ASA® 高效能小型無刷馬達電動起子

## High efficiency brushless motor low torque electric screwdrivers



搭配10um黃金煞車開關系統，壽命可達1000萬次以上。

Adopts 10um gold plating switch to raise the switch life upto 10 million times.



人因工學握柄可輕鬆鎖付

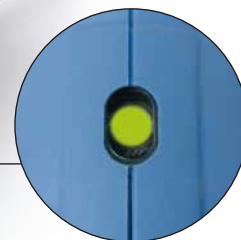
Compact size ergonomics grip design makes easy operation.

### 創新扭力護套設計

- 螺牙結構使扭力護套能輕鬆的鎖付於起子本體。
- 扭力護套也同樣為扭力調整圈，可輕鬆調整扭力。
- 扭力護套可避免因不當扭力而造成被鎖物的損壞。

### Brand new design for torque cover

- The torque cover can easily combined with screwdriver itself by the thread construction.
- The torque cover is also a torque-adjuster, it can easily adjust the torque.
- The torque cover can avoid the fastened object be damaged by improper torque.

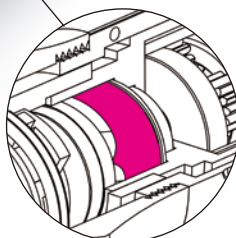


### 扭力提示燈

當鎖付到達扭力時，提示燈會亮起綠燈。有效降低操作者需人工監測扭力的負擔。

### Torque indicator light

When reaching the torque while fastening, the torque indicator light will be shown as green color, which can effectively reduce the burdens of checking the fastening situation for operators.



### 扭力精度極精準

One pulse torque up, torque accuracy with high precision.

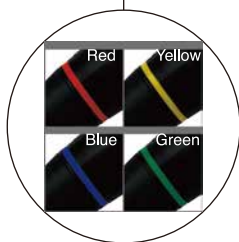


### 高效能無刷馬達介紹

- 使用高效能無刷馬達，壽命超耐久。
- 無須更換碳刷，有效降低企業支出成本。
- 無碳粉溢出之設計，適用於無塵室環境。

### Introduction for high efficiency brushless motor

- Use the high efficiency brushless motor gives unsurpassed durability.
- Adopt the carbon brushless motor that it will reduce the business cost effectively.
- Brushless motor design that is available in the clean room operation.



### 扭力區分管理

ASA提供您一套獨特、以顏色來管理扭力的系統。選擇不同顏色配合不同的扭力大小，就能運用在生產線上，並做有效的扭力區分管理。

### Color torque control system

ASA provides you a unique color torque control system, using the different colors to distinguish the torque for assembly line.



# ASA 高效能小型無刷馬達電動起子

## High efficiency brushless motor low torque electric screwdrivers

低壓直流馬達驅動型（附電源控制器）

Low voltage DC motor driving (with controller)



可訂製ESD防靜電型

ESD type is available for ordering.



### 特點 Feature

- 使用高效能無刷馬達，壽命超耐久。
- 無須更換碳刷，有效降低企業支出成本。
- 無碳粉溢出之設計，適用於無塵室環境。
- 搭配領先群雄的黃金煞車開關系統。  
（壽命試驗可達1000萬次以上），以大幅降低維修保養費用。
- 無碳粉溢出，降低空氣污染，響應地球環保。
- Use the high efficiency brushless motor gives unsurpassed durability.
- Adopt the carbon brushless motor that it will reduce the business cost effectively.
- Brushless motor design that is available in the clean room operation.
- Adopts excellent gold plating switch that it can raise the contact spot life up to 10 million times and reduce the maintenance cost.
- No any carbon particle flow out not only responses to the earth environment protection but also reduces air pollution.

### 槓桿式 Lever start type

| 機種名<br>Model No. | 輸出扭力範圍<br>Torque range |           | 適用電源控制器<br>Available controller | 無載轉速(±10%)<br>No Load Speed (rpm) | 適用螺絲<br>Available screw   |                           |
|------------------|------------------------|-----------|---------------------------------|-----------------------------------|---------------------------|---------------------------|
|                  | kgf-cm                 | lbf-in    |                                 |                                   | 機械牙徑 Machine screw $\phi$ | 自攻牙徑 Tapping screw $\phi$ |
| BS-S050          | 0.15~0.5               | 0.13~0.43 | APS-201A                        | 100-200                           | 0.7~1.0mm/0.03~0.04in     | 0.6~1.0mm/0.02~0.04in     |
| BS-S100          | 0.5~1.0                | 0.43~0.87 | APS-201A                        | 100-200                           | 1.0~1.8mm/0.04~0.07in     | 1.0~1.4mm/0.04~0.05in     |
| BS-100           | 0.15~1.0               | 0.13~0.87 | APS-201A                        | 100-200                           | 0.7~1.8mm/0.03~0.07in     | 0.6~1.4mm/0.02~0.05in     |
| BS-100F          | 0.15~1.0               | 0.13~0.87 | APS-301A<br>AM-30               | 350-500                           | 0.7~1.8mm/0.03~0.07in     | 0.6~1.4mm/0.02~0.05in     |
| BS-200           | 0.3~2.0                | 0.26~1.7  | APS-301A<br>AM-30               | 600-1000                          | 1.0~2.2mm/0.04~0.09in     | 1.0~2.0mm/0.04~0.08in     |
| BS-250           | 0.4~3.0                | 0.35~2.6  | APS-301A<br>AM-30               | 450-700                           | 1.0~2.6mm/0.04~0.10in     | 1.0~2.0mm/0.04~0.08in     |
| BS-300           | 0.5~5.0                | 0.43~4.3  | APS-301A<br>AM-30               | 650-1000                          | 1.0~2.6mm/0.04~0.10in     | 1.0~2.3mm/0.04~0.09in     |
| BS-400           | 1.0~6.0                | 0.87~5.2  | APS-301A<br>AM-30               | 650-1000                          | 1.4~2.6mm/0.06~0.10in     | 1.4~2.3mm/0.06~0.09in     |
| BS-450           | 1.5~10.0               | 1.3~8.7   | APS-301A<br>AM-30               | 650-1000                          | 2.0~3.0mm/0.08~0.12in     | 2.0~2.6mm/0.08~0.10in     |

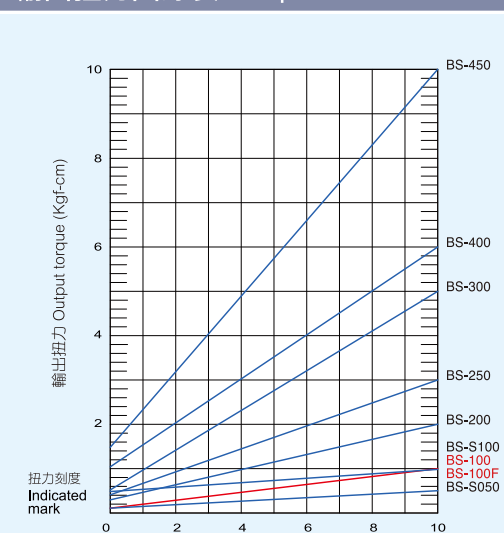
### 適用電源控制器 Available controller

| 外觀<br>Outline | 機種名<br>Model No. | 工作電壓(AC)<br>Operating vol. | 輸出電壓(DC)<br>Output vol.       | 體積(mm)<br>Dimension | 重量(g)<br>Weight | 可操作起子數<br>Drivable | 安規認可<br>Approval by              |
|---------------|------------------|----------------------------|-------------------------------|---------------------|-----------------|--------------------|----------------------------------|
|               | APS-201A         | 100-240V                   | 9-19V<br>可調式<br>(Adjustable)  | 164X64X42           | 300             | 1 screwdriver      | CB,CE,<br>UL(CUL),<br>ROHS,REACH |
|               | APS-301A         | 100-240V                   | 20-30V<br>可調式<br>(Adjustable) | 164X64X42           | 300             | 1 screwdriver      | CB,CE,<br>UL(CUL),<br>ROHS,REACH |
|               | AM-30            | 100-240V                   | 20-30V<br>可調式<br>(Adjustable) | 172X84X61           | 450             | 1 screwdriver      | CB,CE,<br>UL(CUL),<br>ROHS,REACH |

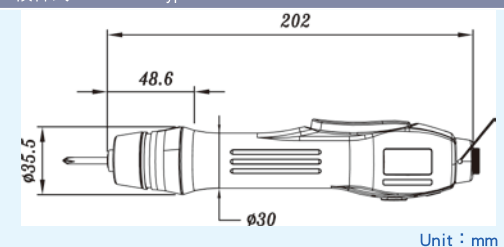
### 電動起子週邊設備 (選購品) Attachment of electric screwdriver (Optional)

| 外觀<br>Outline | 名稱<br>Description                                                                                                                              | 規格<br>Specification                            |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
|               | 彎90°轉接頭<br>Right angle head                                                                                                                    | 4A9402                                         |
|               | AT-1050<br>可調式螺絲整列機<br>AT-1050<br>Adjustable screw feeder                                                                                      | 適用M1.0~M5.0mm螺絲<br>Available screw M1.0-M5.0mm |
|               | 多功能螺絲專利整理盒<br>Patented multifunction<br>screw kit box                                                                                          | 適用M1.0~M2.4mm螺絲<br>Available screw M1.0-M2.4mm |
|               | 彈吊車 Balancer<br>本產品可適用於無塵室，<br>並通過SGS-10等級測試。<br>This product can be used in the<br>clean room. It has passed SGS<br>Clean room Class-10 test. | 型號<br>Model                                    |
|               |                                                                                                                                                | 載重 Load                                        |
|               |                                                                                                                                                | 伸縮長<br>Extend L'                               |
|               |                                                                                                                                                | 編號<br>Parts NO.                                |
|               | 磁環<br>MAG-O-NETS                                                                                                                               | 內徑<br>ID                                       |
|               |                                                                                                                                                | 外徑<br>OD                                       |
|               |                                                                                                                                                | 厚度<br>Thick                                    |
|               |                                                                                                                                                | 編號<br>Parts NO.                                |

### 輸出扭力曲線表 Torque Curve



### 槓桿式 Lever start type



Unit : mm

|                               |                    |
|-------------------------------|--------------------|
| 工作電壓 Power Source             | 19VDC/30VDC        |
| 扭力精度 Torque Accuracy          | 極精準 High precision |
| 扭力調整 Torque Setting           | 無段式 Stepless       |
| 重量 Weight                     | 300g/0.66lb        |
| 長度 Length                     | 202mm/7.95in       |
| 握持直徑 Grip diameter            | 30mm/1.18in        |
| 適用起子頭(選購品)                    | 4Ø                 |
| Available bit size (optional) |                    |