

按壓式規格  
Specifications of Pressing Type

機種名稱 Model	扭力輸出範圍 Torque Output Range			電源控制器 Power Controller	無載轉速 (±10%) No Load Speed	適用螺絲 Applicable Screw 機械牙徑 Mech. Thread Dia. / 自攻牙徑 Self-tapping Thread Dia.
	kgf.cm	N.m	Lbf.in			
HR-BL06	0.5~6	0.049~0.58	0.434~5.2	HRA-60	700/1000 RPM	1.0~2.6 mm / 1.0~2.3 mm
HR-BL16	1~16	0.098~1.56	0.868~13.88	HRA-60	700/1000 RPM	2.2~4.0 mm / 2.0~3.2 mm
HR-BL20	2~20	0.196~1.96	1.736~17.36	HRA-60	700/1000 RPM	2.6~4.2 mm / 2.3~3.5 mm
HR-BL24	4~24	0.39~2.35	3.472~20.83	HRA-60	700/1000 RPM	3.0~5.0 mm / 2.6~4.0 mm
HR-BL12F	1~12	0.098~1.18	0.868~10.42	HRA-60	1400/2000 RPM	1.4~3.0 mm / 1.4~2.6 mm

電源控制器  
Power Controller

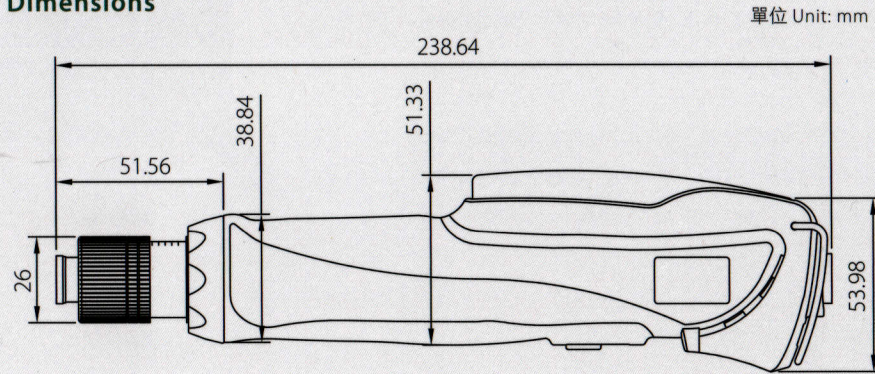
機種名稱 Model	工作電壓 Working Voltage (AC)	輸出電壓 Output Voltage (DC)	尺寸外型 Dimensions	重量 Weight	操作起子數 Working Screwdriver No.
HRA-60	100~240V	20~30V 切換式 Changeable	164 x 61 x 39 mm	260 g	1



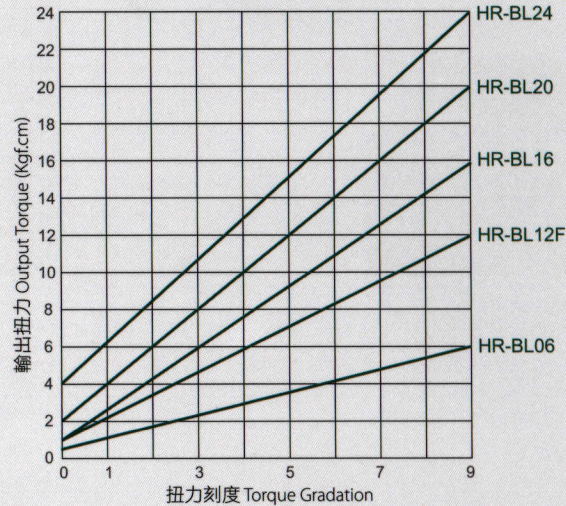
參數  
Parameters

扭力精度 Torque Accuracy	±3%
扭力調整 Torque Adjustment	機械式 Mechanical
重量 Weight	520 g
長度 Length	238 mm
適用起子頭規格 Appl. Bit Sizes	Ø5 or 1/4" (6.35 mm) 六角對邊 Hex Shank

外部尺寸  
Dimensions



扭力輸出表  
Torque Output Chart



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**HIGH RIGHT**

FULLY AUTOMATIC

# BRUSHLESS ELECTRIC SCREWDRIVER

—— 全自動 無碳刷電動起子





## 產品特色 FEATURES

- 高效能空心杯無碳刷馬達，具有極佳壽命及穩定性，且無碳粉溢出，適用於無塵室環境。無需更換碳刷，有效降低企業成本支出。

High performance coreless brushless motor features long service life and maximum stability. No carbon powder flowing out makes the screwdriver suitable for use in clean rooms. Also there is no need to replace the carbon brush for reducing the cost of enterprise.

- 低慣量、低耗電、低發熱，起子可耐長時間使用。

Low inertia, low electricity consumption and low thermal growth. The screwdriver is ideal for long-term use.

- 霍爾感應式煞車、啟動開關，釋放扭力超精準，壽命相比傳統開關大幅提升。

Utilizes Hall induction type brake and start switch. Accurate torque output and longer service life than traditional switches.

- 超耐磨離合器，扭力衰退低，輸出穩定，適用高科技精密產品。

The screwdriver is equipped with an extra wear-resistant clutch, with low torque decay and stable torque output. The unit is suitable for high-tech precision parts.

- 外觀雙料射出，防滑材質層次包覆，提升操作者舒適度。

The exterior is injection molded with two types of material, and non-slip material is layer-covered for upgrading user's comfort.

### 高效能空心杯無碳刷馬達

High Performance Coreless Brushless Motor

低慣量、低發熱，具無需更換碳刷，有效降低支出成本。

Low inertia, Low thermal growth. No need to replace carbon brush for saving cost.

### 橡膠材質

Rubber Material

採用層次貼合技術製成，增加手持密合性，有效降低扭力慣性所造成操作者的職業傷害。

The rubber parts are manufactured using layered lamination technology. This can increase the tightness of the handheld while effectively reducing occupational injury to the operator caused by torque inertia.

### 霍爾感應開關

Hall Sensing Switch

採用非接觸式磁場感應開關，可大幅降低機械式接觸所造成的磨損。進而提高性能可靠性及耐久性。

The screwdriver is equipped with a non-contact magnetic induction switch, which can greatly reduce the wear caused by mechanical contact. This increases performance dependability and durability.

### 隱藏式扭力指示燈

Built-in Type Torque Indication Lamp

扭力指示燈為直覺式設計。當鎖附扭力到達時，提供使用者明確指示，避免滑牙及鎖附不完全狀況發生，使用上更具人性化。

The torque indication lamp is of an intuitive design. When the tightening torque is reached, this indication lamp will notify the user. It can avoid thread slipping and incomplete tightening and is more user-friendly in use.

### 正反轉切換開關

Excellent HClockwise / Counter-clockwise Rotation Change Switchholding Feeling

清晰、簡易、大圖像顯示正反轉狀態。The clear, simple and large icon displays the directional rotation status.

### 流線型、握感佳

Streamlined Shape, Excellent Holding Feeling

握把設計符合人體工學原理，使用時手部不酸痛，可降低疲勞，確保長時間使用的舒適性。The design of the grip is ergonomic. It not only prevents hand soreness, but also reduces fatigue during use. Comfort even over long-term use can be assured.

### 扭力衰退比較表

Torque Decay Comparison Diagram

與市售同級距機型做扭力測試比較，HR-BL20之扭力衰退幅度較趨緩且較平穩。Conducting torque tests with similar models, the torque decay range on the HR-BL20, is slower and more stable.

