

800MX MOTOR 關於 800MX 馬達



Power and torque requirements of enthusiasts, the high output 800MX motor was born in Align's R&D lab. With dramatic increase in torque and power output, capable of 5100 watts continuous power output and 11000 watts of burst power!

800MX Motor has passed various thorough inspections made by our technical department, including motive testing, static testing, magnetic field testing, heat resistance and magnetic loss testing, running balance and vibration testing, noise testing, and many hours of actual loading and flying testing, etc. Align is proud to provide the latest innovations in RC Modeling to its consumers. Please enjoy your Align products safely.

亞拓特別針對玩家大動力、高扭力的需求，研發設計出為極致動力而生的800MX馬達，動力輸出與扭力表現大幅提升，持續輸出功率達5100W，瞬間最大輸出功率可達11000W。

本公司生產的高扭力高轉速800MX馬達，適用於RC電動商品，其高功率高效率輸出特性，適合電動飛機/電動直昇機之高扭力高轉速驅動動力用途，速度控制可採本公司或市售規格無刷電子變速器。轉子採用高磁性材料釹鐵硼精製而成，定子採用本廠NC自動繞線與高強度樹脂成型保護，耐高溫低震動。心軸採高硬度高鋼性軸承鋼及雙ZZ高速精密軸承設計，且經由亞拓獨立開發設計技術，使用壽命長、效率高、耐撞不易變形、低磁損、高效能800型無刷馬達。該項新商品已通過本廠技術單位，實施精密嚴格動、靜態，磁場特性、強磁耐高溫磁損、運轉平衡震動及噪音、負載實測飛行動態性能等全項嚴格檢測。

SPECIFICATION 尺寸規格

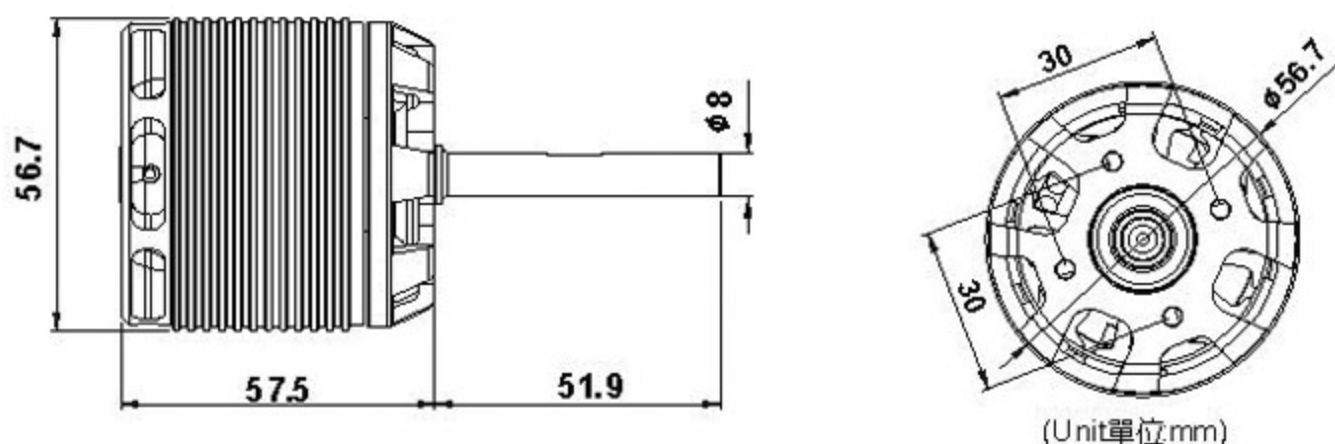


ILLUSTRATION 接線示意圖



The motor rotates in different direction with different brand ESCs. If the wrong rotating direction happens, please switch any two cables to make the motor rotates in right direction.

由於各品牌電子變速器的馬達啟動轉向不盡相同，若發生轉向錯誤時，請將馬達與電子變速器的接線任兩條對調即可。

KV KV值	520KV(RPM/V)	Input voltage 輸入電壓	DC 11.1~50.4V
Stator Arms 矽鋼片槽數	12	Magnet Poles 磁鐵極數	10
Max continuous current 最大持續電流	115A	Max instantaneous current 最大瞬間電流	250A(2sec/2秒)
Max continuous power 最大持續功率	5100W	Max instantaneous power 最大瞬間功率	11000W(2sec/2秒)
Dimension 尺寸	Shaft 軸 $\phi 8 \times 56.7 \times 109.4 \text{mm}$	Weight 重量	Approx. 約 516g

FEATURES 特性說明

1. 800MX features high efficiency, superior power, excellent torque, low current draw and low temperature; it's capable of maintaining consistent torque and head speed through continuous 3D maneuvers.
2. Due to the 800MX's high efficiency and low current draw, the standard equipment 120A electronic speed controller are sufficient to experience the power of this motor, and extend battery longevity.
3. The 800MX motor armature had a special balance adjust to improve the serious shaking problem.
4. Maintenance free, high torque, high efficiency, stable and quiet.
5. High-speed ball bearings, powerful magnetic outrunner rotor.
6. Suitable for other 700 sized models with ϕ 8mm hole diameter for the motor shaft.

1. 800MX馬達有著高效率、大動力、高扭力、低耗電流與低溫的表現，持續性的3D動作可以感受豐沛扭力輸出，整段飛行都能維持一致的動力輸出，主旋翼幾乎是維持在固定轉速，不掉轉。
2. 800MX馬達的高效率、低電流表現，電子變速器只需要原廠120A的標準配備，就能完全展現馬達的威力，與延長電池的使用壽命。
3. 800MX馬達轉子皆經過特殊平衡校正，改善一般無外殼外轉馬達平衡不佳，易產生嚴重震動的缺失。
4. 免保養、高扭力、高效率、低噪音、低溫昇、控制穩定。
5. 高速滾珠軸承、高磁通外轉子。
6. 適用其他使用 ϕ 8mm馬達心軸的700級機型。

800MX POWER DATA REFERENCE TABLE 動力數據參考表

Uses T-REX700 model as example / 以T-REX700機型為例

Battery / 電池: ALIGN Li-Poly 44.4V 5200mAh 40C

ESC / 無刷調速器: Castle ICE2 HV 120 Governor Mode Set RPM

Motor Pinion Gear 馬達齒輪	Main Rotor Blade 主旋翼規格	Pitch 螺距		Current(A) approx. 電流(A)大約值	Throttle Curve 油門曲線	Desired Head Speed 主旋翼設定轉速
12T	690 Carbon Fiber Blades 690碳纖主旋翼	Hover 停懸	+5°	19	Governor mode: up to 50% 定速模式50%以下	1800
		Idle	0°	23	Governor mode: 50%~99% 定速模式50%~99%	2100
			±12°	70		
			0°	25	Governor mode: above 99% 定速模式99%以上	2250
			±12°	75		

※ Effective immediately, the Align MX series motors have 50% off Lifetime service where your old motor can be exchanged for 50% off the retail pricing of a new equal spec motor. If needed, please contact to Align authorized distributors .

For detailed information, please check Align official website: <http://www.align.com.tw>

※ 即日起亞拓MX系列馬達提供Lifetime service 享有5折舊換新活動，如有需求請向亞拓指定代理商依定價之5折更換同規格全新馬達。詳細辦法請洽官網: <http://www.align.com.tw>