

AM

系列
SERIES

磁力驅動無軸封泵浦
MAGNETIC DRIVE SEAL-LESS PUMP



ASSOMA INC 協磁

<http://www.assoma.com.tw>

協磁公司秉持『專業、創新、品質、服務』理念，致力於流體機械研究開發已歷30餘年，在研發領域上，整合流力設計、流場分析、應力分析、磁場分析及CAD/CAM系統工具，形成一個完整而有效的產品開發環境，並在ISO 9001國際品保認證的品質系統運作架構下，提供客戶快速質優的服務品質。

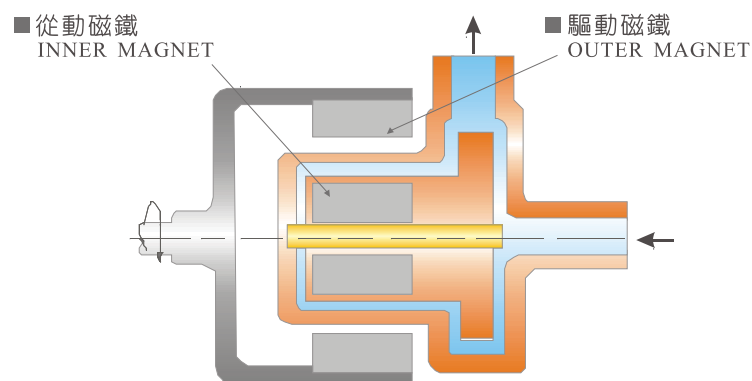
ASSOMA INC. is a professional pump design, manufacturing, and marketing company. Our main business philosophy of continuous improvement has allowed us to stay ahead in today's competitive market. Through over three decades of accumulated experience, we have developed an integrated product development environment that is fully computerized, systematic, and technology driven. Our integrated design system includes stress/strain analysis, mode shape analysis, flow simulation, rotor dynamic, and magnetic field analysis within the CAE module, and advanced hydraulic design software incorporating 3D CAD/CAM techniques.

無軸封泵浦動作原理 OPERATION PRINCIPLE

利用接附於馬達上之驅動磁鐵與接附於葉片上之從動磁鐵間的扭力傳遞，及介於兩者間屏蔽的採用，間接驅使葉輪運轉，即以此靜態密封方式來取代傳統動態軸封之裝置，藉以徹底解決洩漏的問題。

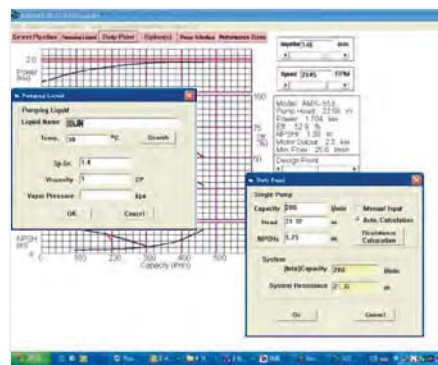
ASSOMA's magnetic drive seal-less pump operates via the adoption of a barrier (rear casing) between the magnetic coupling. Torque is transmitted via the magnetic coupling in which the outer magnet is fixed on the motor shaft, and the inner magnet is encapsulated with the impeller. This use of static sealing instead of traditional dynamic mechanical seal completely solves the problem of leakage.

無軸封泵浦動作原理
OPERATION PRINCIPLE DIAGRAM

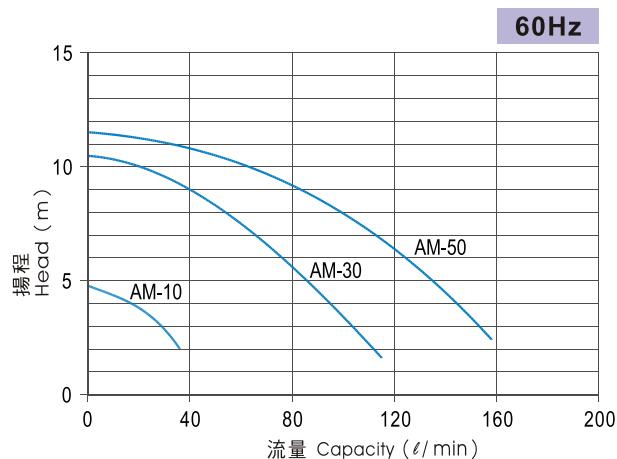
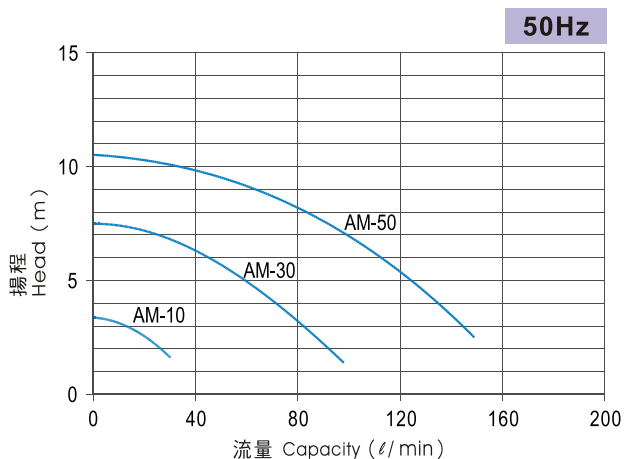


特性 FEATURES

- 提供插管、由任、法蘭多種配管方式，方便客戶選擇。
Various pipe connections are offered: Union, flange or direct hose connection.
- 配合耐蝕環氧樹脂塗裝之金屬托架及不銹鋼腳架，可充分支撐泵浦及配管之負載。
Both the epoxy-coated bracket and the stainless steel base plate are carefully integrated to maximize its structural strength against additional loading from the piping system.
- 配備 IEC 標準規格馬達：IP54 或 IP55 防護等級、F 級絕緣。
Equipped IEC standard motor is with IP54 or IP55 protection and F class insulation.
- 接液部材質皆為耐蝕性強之工程塑膠，依輸送液腐蝕性強弱可選擇 PP+GF，PVDF 或 ETFE+CF 材質。
Parts that come in contact with chemical fluid are made of corrosion resistant material. PP+GF, PVDF, or ETFE+CF material can be selected based on the corrosive properties of the chemicals.
- 構造簡單，維修、保養容易。
Simple structure with minimum parts makes the maintenance easier.
- 獨家採用 ASSOMA-SCAC（系統計算與泵浦選用軟體）提供客戶泵浦選型與規格開立之服務。
Provide pump specification and selection service using our proprietary ASSOMA-SCAC (System Computing And Catalog) program.



性能曲線圖 PERFORMANCE CURVES

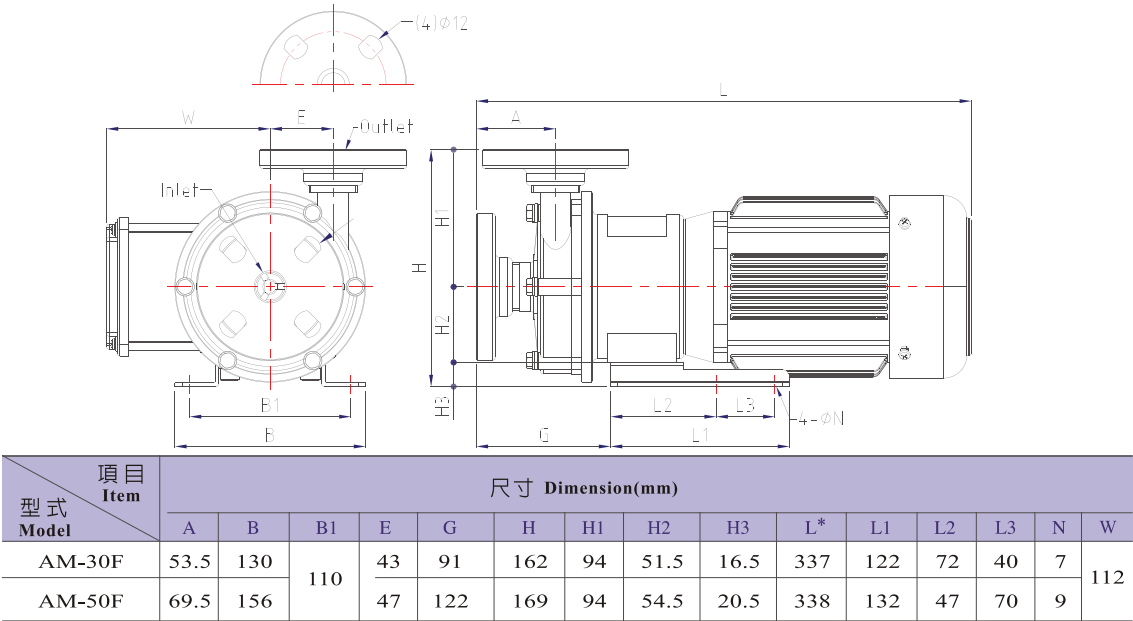
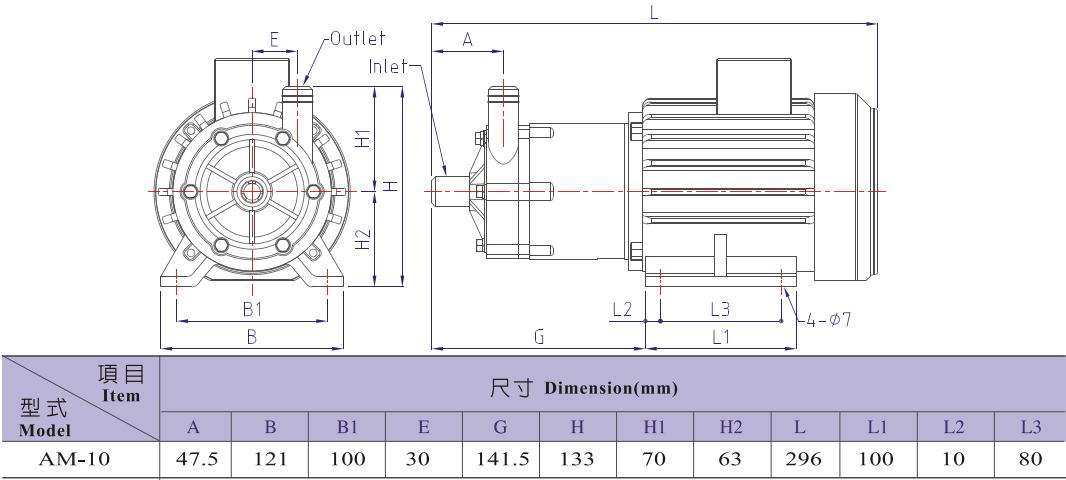


規格表 SPECIFICATIONS

機 型 Model	入口×出口配管* Suction x Discharge(mm)				頻 率 Frequency	額定流量 Rated Capacity (l/min)	額定揚程 Rated Head (m)	馬達輸出功率 Motor Output (kW)
	插管 Hose	牙口 Thread	由任 Union	法蘭 Flange				
AM-10	20	G½	15		50Hz 60Hz	20	2.6 3.8	0.065
AM-30	25	G1	25	20	50Hz 60Hz	40 50	6.3 8.2	0.18
AM-50	25	G1	25	20	50Hz 60Hz	80	8.2 9.3	0.25

* 泵浦入口由任可依客戶需求搭配DIN, JIS或ANSI之牙口或插管
The union is available in DIN, JIS, or ANSI standard upon customer's request.

外型尺寸圖 DIMENSIONS



*泵浦外形尺寸將因馬達供應商和安裝方式之不同而有所區別。
Dimension of the pump will differ depending on the brand and installation of the motor.

型式表示 PUMP IDENTIFICATION

AM - 50 F G A C V - 3

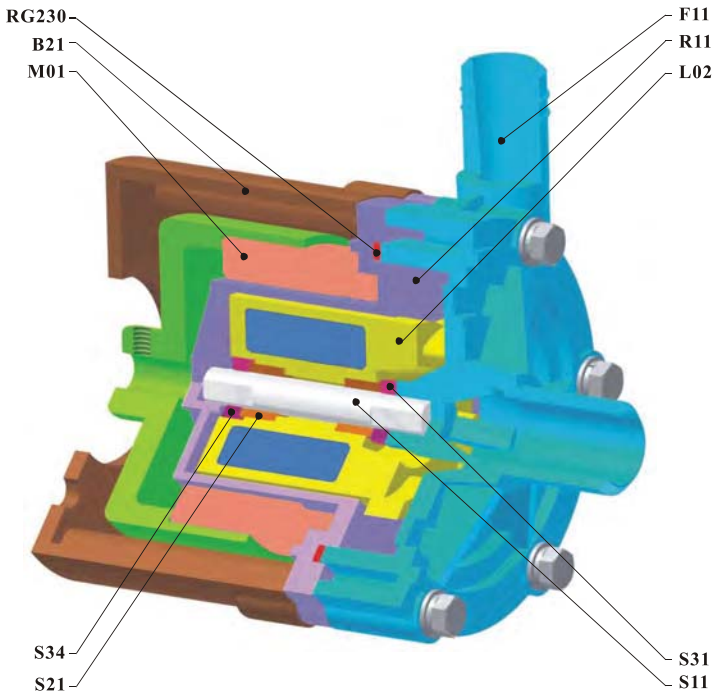
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① 泵浦系列 Series Symbol	AM 系列 AM Series	
② 泵浦形式 Model	請參閱規格表 Please refer to the Specifications for detail	
③ 入 / 出口配管 Connection Type	AM-10	S : 插管 Hose T : 牙口 Thread U : 由任 Union
	AM-30/50	S : 插管 Hose F : 法蘭 Flange T : 牙口 Thread U : 由任 Union
④ 本體材質 Casing Material	AM-10	P : PP V : PVDF
	AM-30/50	G : PP+GF V : PVDF E : ETFE+CF

⑤ 軸心材質 Shaft Material	A : 995 Al ₂ O ₃ S : SSiC	
⑥ 軸承材質 Bearing Material	A : 995 Al ₂ O ₃ C : CARBON R : PTFE 含填充料 PTFE with filler S : SSiC	
⑦ O 形環材質 O-Ring Material	E : EPDM V : VITON	
⑧ 馬達電源 Power Source	AM-10	1 : 1 ̢ IP54 1 : 1 ̢ IP55 2 : 1 ̢ IP54 3 : 3 ̢ IP55 4 : 3 ̢ IP54 S : 特殊馬達 Special motor
	AM-30/50	

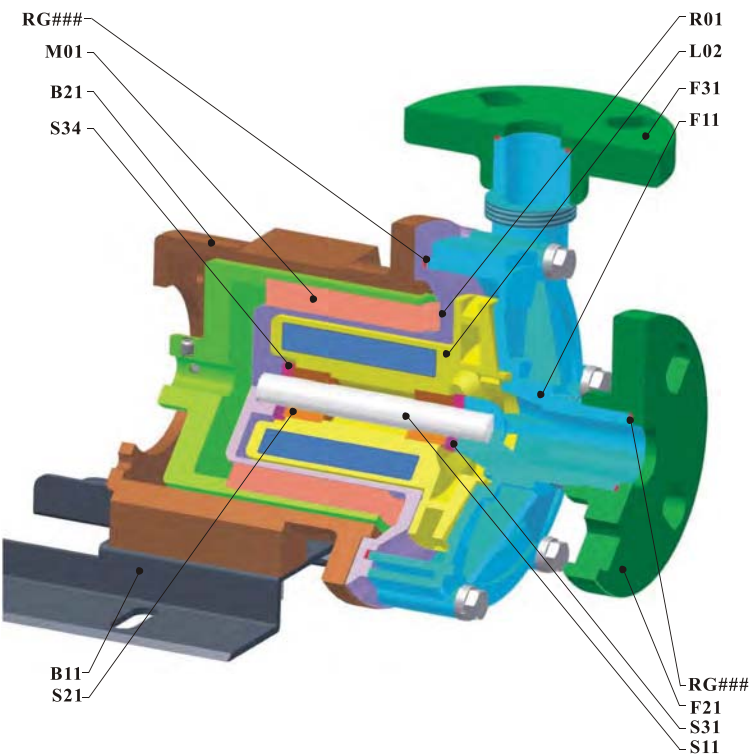
材質構造圖 MATERIAL

AM-10



編號 Part code	名稱 Part name	可選用材質 Available Materials
B21	托架 Bracket	PP+GF
EM	馬達 Motor	Aluminum Alloy
F11	前蓋 Pump casing	PP / PVDF
L02	葉輪組 Impeller	PP+GF / PVDF
M01	外輪 Drive magnet	Ba-ferrite
R11	後蓋 Rear casing	PP / PVDF
RG230	O形環 O-ring	EPDM / VITON
S11	軸心 Shaft	995 Al ₂ O ₃
S21	軸承 Bearing	PTFE 含填充料 PTFE with filler
S31	前止推環 Front thrust ring	995 Al ₂ O ₃
S34	後止推環 Rear thrust ring	995 Al ₂ O ₃

AM-30F/AM-50F



編號 Part code	名稱 Part name	可選用材質 Available Materials
B11	底座 Base	SUS304
B21	托架 Bracket	FC
EM	馬達 Motor	Aluminum Alloy
F11	前蓋 Pump casing	PP+GF / ETFE+CF / PVDF
F21	入口法蘭 Inlet flange	PP+GF / ETFE+CF / PVDF
F31	出口法蘭 Outlet flange	PP+GF / ETFE+CF / PVDF
L02	葉輪組 Impeller	PP+GF / ETFE+CF / PVDF
M01	外輪 Drive magnet	Ba-ferrite
R11	後蓋 Rear casing	PP+GF / ETFE+CF / PVDF
RG###	O形環 O-ring	EPDM / VITON
S11	軸心 Shaft	995 Al ₂ O ₃
S21	軸承 Bearing	CARBON / SSiC PTFE 含填充料PTFE with filler
S31	前止推環 Front thrust ring	995 Al ₂ O ₃
S34	後止推環 Rear thrust ring	995 Al ₂ O ₃