



AMX

系列
SERIES

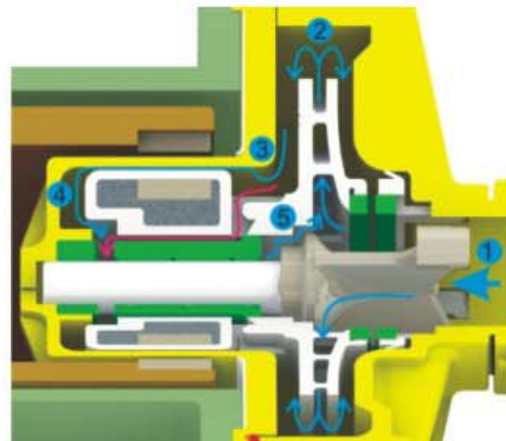
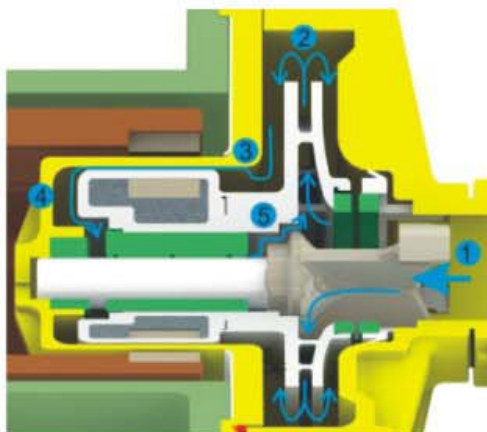
磁力驅動無軸封泵浦
MAGNETIC DRIVE SEAL-LESS PUMP



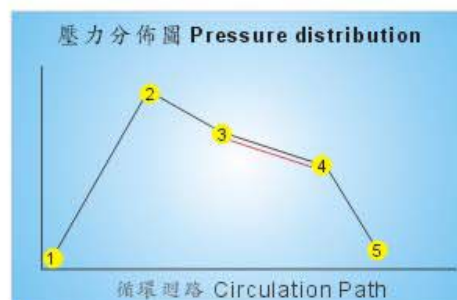
榮獲
PATENTED IN
德國、台灣
GERMANY, TAIWAN (R.O.C.),
美國、日本、大陸
USA, JAPAN, CHINA (P.R.C.),
韓國、英國新型專利
KOREA, UK.
其他國家專利申請中
OTHER COUNTRIES ARE PENDING.

AMX 系列是協磁公司專為克服無軸封泵浦經常遇到的異常現象，如“空轉”，“汽化”等而導致泵浦嚴重損壞的全系列產品。馬力數範圍由 1/2Hp 到 5Hp (0.4kw~3.75kw)。AMX 系列已獲得二項國際專利，其優異的機械及水力性能除在實驗室長期驗證外並參加多項國際性展覽 (ACHEMA/Frankfurt am Main, KPCA/Seoul, CPCA/Shanghai, Enviro/Sydney, TPCA/Taipei,)，普獲好評。

AMX series are specially designed to prevent defects of pump from abnormal phenomenon, such as dry-run and cavitation, etc.. Power ranges from 1/2Hp to 5Hp (0.4kw~3.75kw). AMX series have obtained two patents worldwide. Its outstanding mechanical structure and hydraulic performance have been verified satisfactorily on the long trial run in the test lab and displayed in several international exhibitions (such as AICHEMA/Frankfurt am Main, KPCA/Seoul, CPCA/Shanghai, Enviro/Sydney, TPCA/Taipei, . . .) and highly appraised by the public.



■ 傳統循環迴路
Traditional Circulation Path



■ 協磁專利循環迴路
ASSOMA Patented Circulation Path
For Cooling

由泵浦流體設計軟體計算出最佳流道幾何，配合流場分析，掌握流動特性，使流體損失降為最低，提高葉片流體效率。

The geometry of impeller and casing are generated by professional hydraulic design programs. In addition, Computerized Fluid Dynamic (CFD) method is used to control stream pattern, thus reducing hydraulic loss and increasing pump efficiency.

高效率水力設計 High Efficient Flow Design

AMX 的軸承潤滑迴路，首創雙面對流冷卻設計，在同樣的潤滑流量下，可帶走更多熱量，即使空轉時，也可降低熱平衡溫度，提高抗空轉能力。



The revolutionized bearing design with dual-channel circulation on both inner and outer surfaces of bearing contributes to rapidly heat dissipation.

The circulation leakage of sealless pump is fully utilized to reinforce convectional heat transfer that lowers thermal balancing temperature and prevents damage even under dry running.

專利耐空轉結構 Patented Dry-run Design

以電腦輔助設計及分析來強調最佳化及可靠度，引領協磁產品成功進入高科技產業。



Using fully computer aided design and analysis to assist product development.

This modern design concept helps ASSOMA's products lead to high technical industry.

結合CAD/CAE 的科技產品 Integrate CAD/CAE System



組合式法蘭 Flange Assembly

可任意調整螺孔方向的組合式RF型法蘭，除提供配管方便性以外，更可避免配管應力造成法蘭變形引起的洩漏問題。

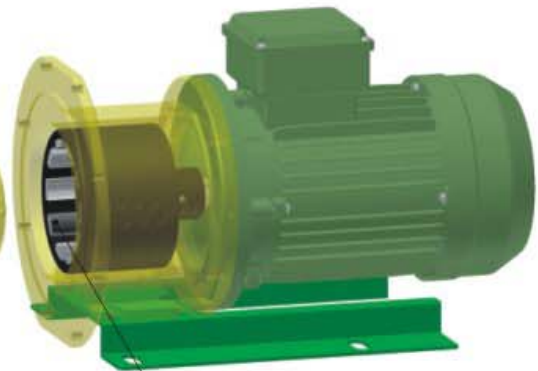
We use RF type adjustable flanges. The orientation of the flange can be varied to match corresponding boltholes to facilitate piping installation. The new design can also help to eliminate leakage problems caused by flange deformation.



專利緩衝止推系統 Patented Buffer System

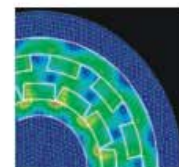
獨具創意的動態式緩衝座，除具備緩衝作用以吸收泵浦葉輪在吸入條件惡劣時之振動外，並提供止推環與葉輪磨損環間一動態式的平面接觸，藉以保持摩擦面之有效接觸面積，並大幅提高止推環及磨損環之可靠度及使用壽命，可降低疲勞損害。

Our innovative dynamic buffer is specially designed to absorb vibration and shock caused by adverse operating conditions. At the same time, the dynamic buffer is self-adjusting, allowing a better face to face contact between the thrust ring and the wear ring, thus, minimizing wear and prolonging their service life.



高性能磁偶合器 High Performance Magnetic Coupling

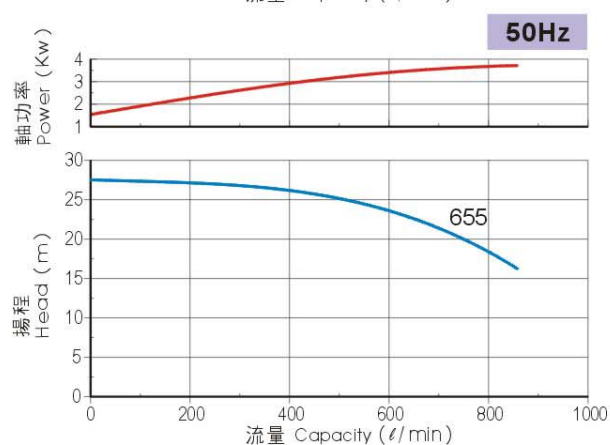
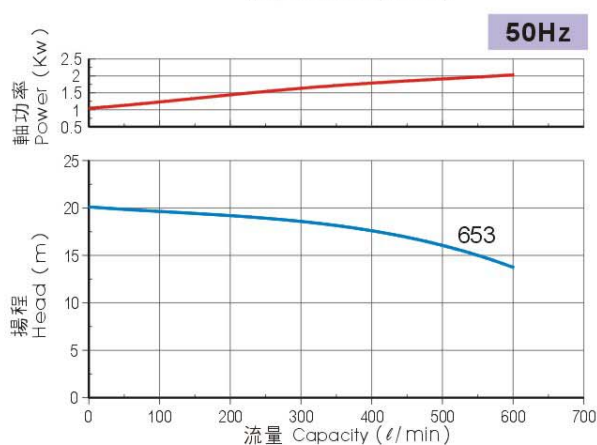
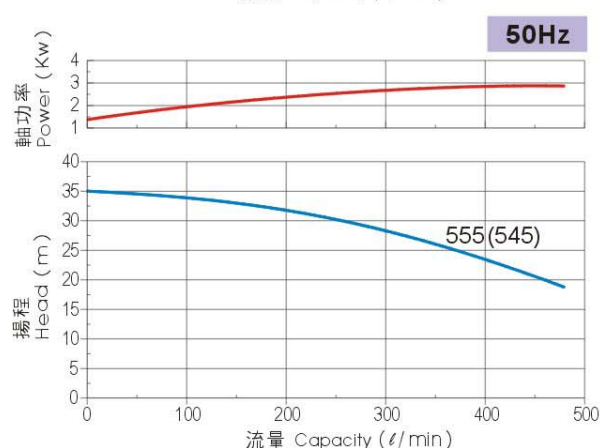
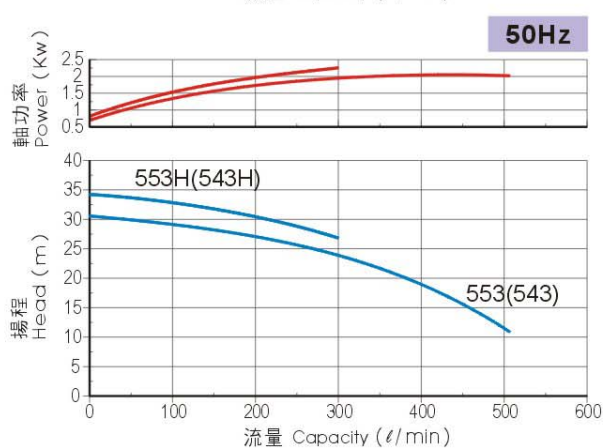
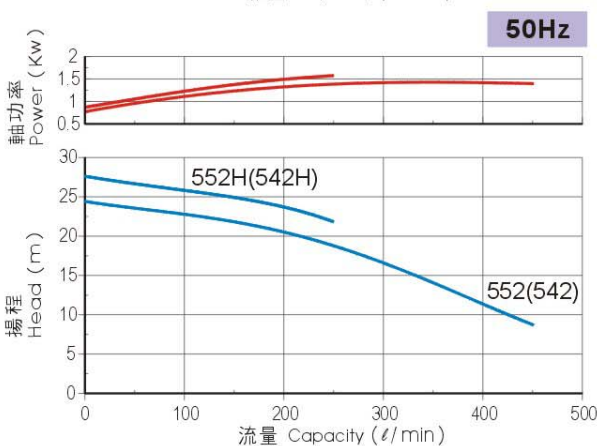
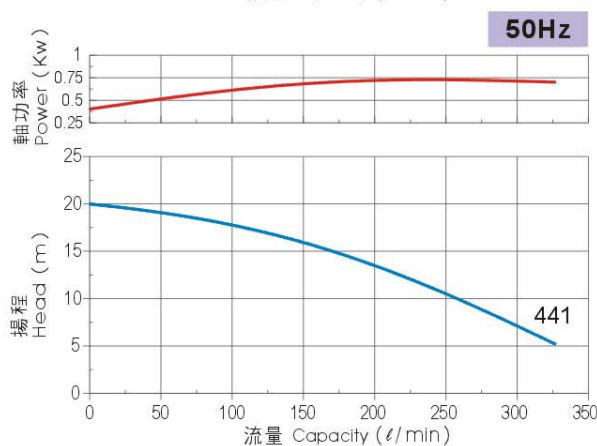
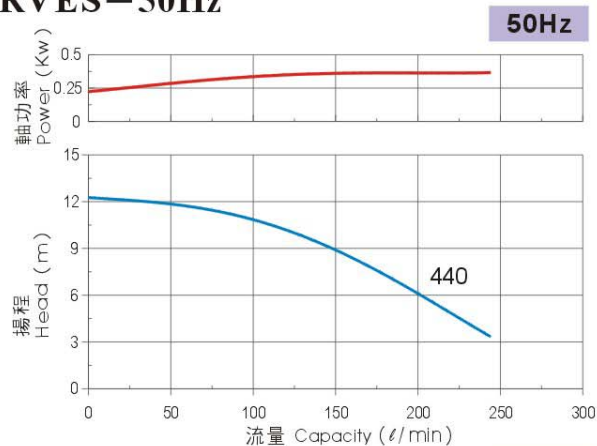
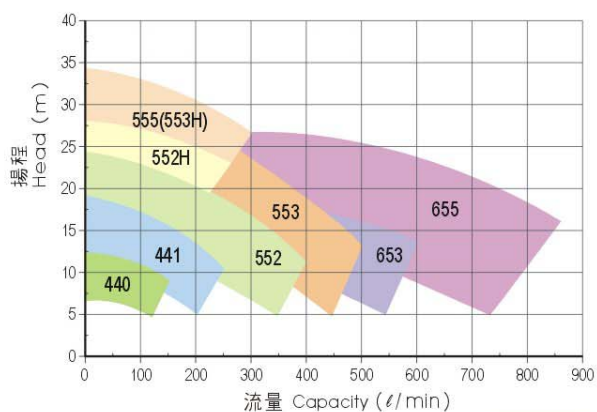
利用磁場分析軟體計算磁扭矩，提高磁鐵利用率，確保足夠的偶合動力餘裕以避免滑脫。



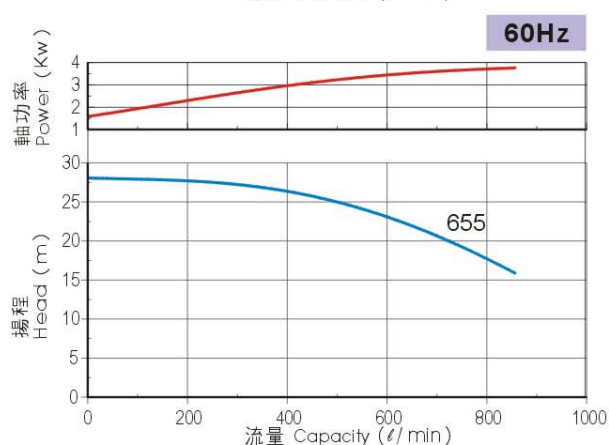
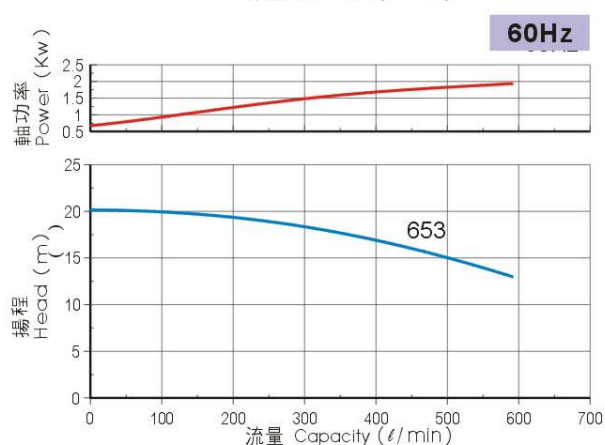
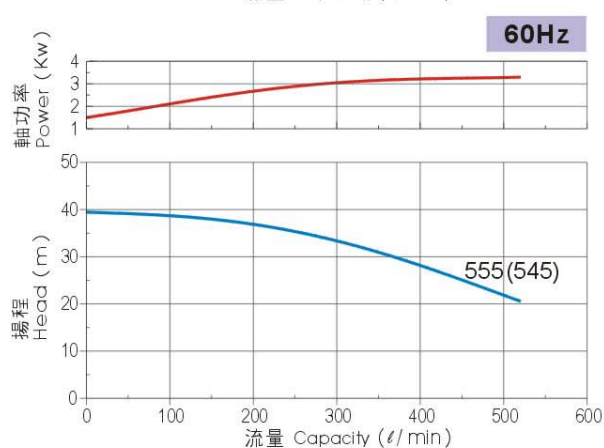
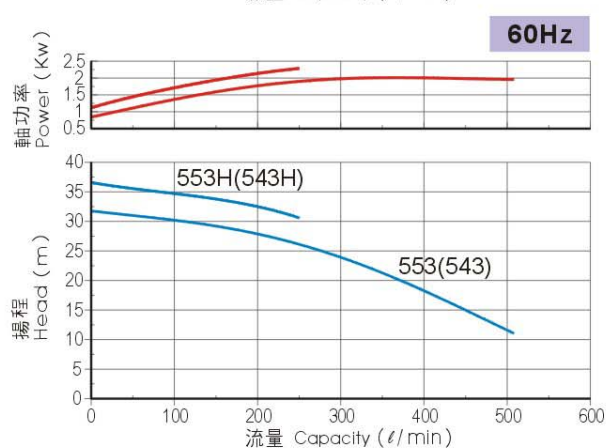
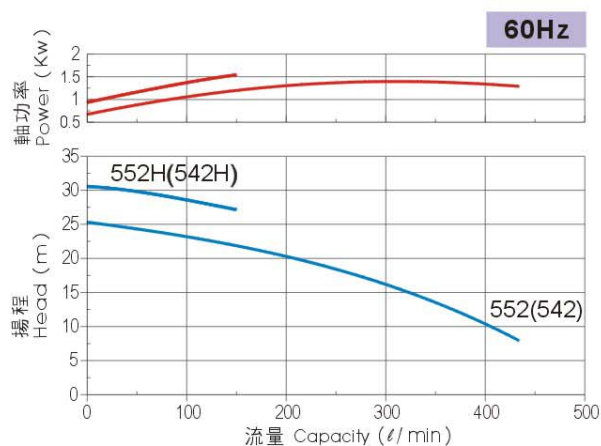
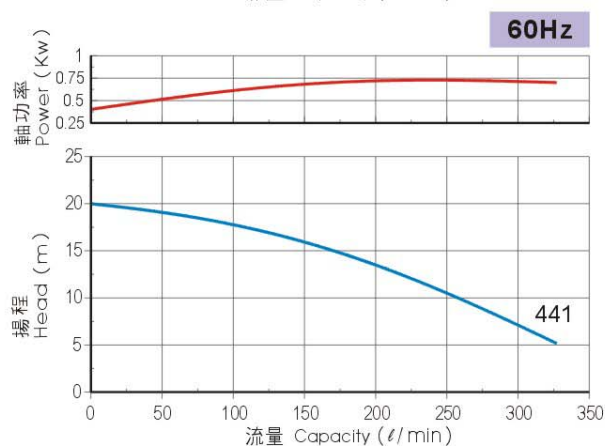
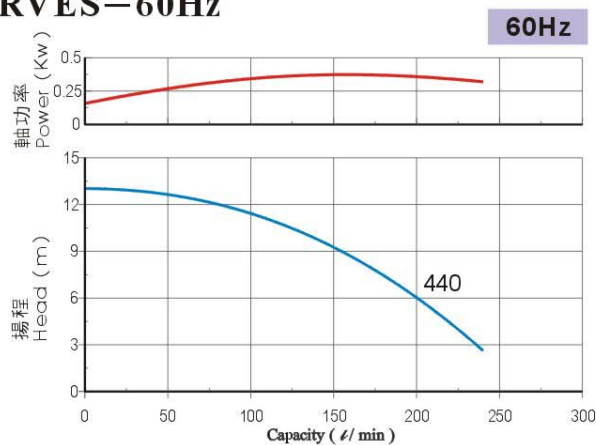
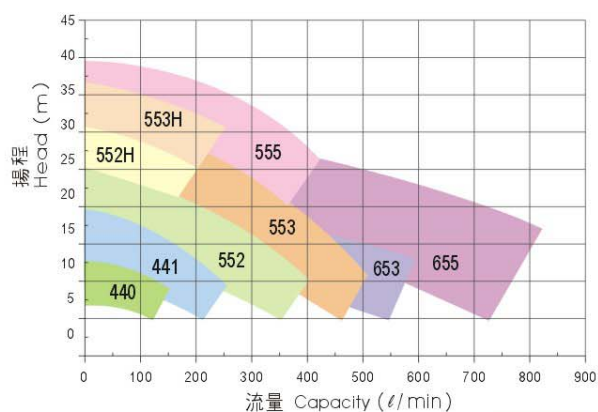
We utilize magnetic field analysis program to calculate magnetic torque to maximize magnet utilization and ensure sufficient torque

margin to prevent decoupling.

性能曲線圖 PERFORMANCE CURVES—50Hz



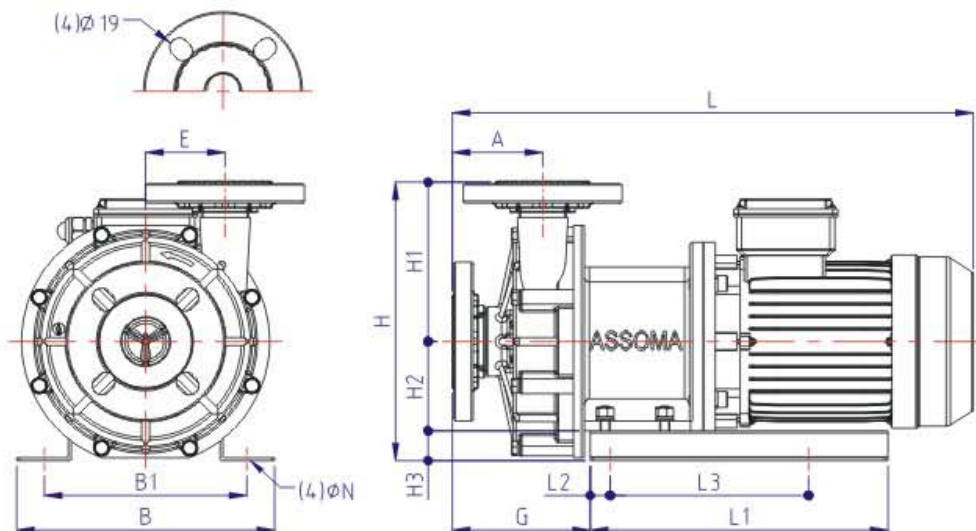
性能曲線圖 PERFORMANCE CURVES—60Hz



規格表 SPECIFICATIONS

機 型 Model	入口*出口配管 Suction*Discharge mm*mm	頻 率 Frequency	額定流量 Rated Capacity l/min	額定揚程 Rated Head m	最高揚程 Max. Head m	馬達輸出功率 Motor Output kW
AMX-440	40*40	50Hz 60Hz	100 100	10.9 11.6	12.3 13.0	0.4
AMX-441	40*40	50Hz 60Hz	150 150	15.6 15.4	19.0 19.6	0.75
AMX-552	50*50	50Hz	200	20.6	24.4	1.5
AMX-542	50*40	60Hz	200	20.3	25.3	1.5
AMX-552H	50*50	50Hz	100	25.8	27.6	1.5
AMX-542H	50*40	60Hz	100	28.6	30.6	1.5
AMX-553	50*50	50Hz	250	25.8	30.6	2.2
AMX-543	50*40	60Hz	250	26.2	31.8	2.2
AMX-553H	50*50	50Hz	150	31.8	34.2	2.2
AMX-543H	50*40	60Hz	150	33.7	36.6	2.2
AMX-555	50*50	50Hz	250	30.2	35.0	3.75
AMX-545	50*40	60Hz	250	35.4	39.4	3.75
AMX-653	65*50	50Hz 60Hz	450 450	17.0 16.1	20.0 20.1	2.2
AMX-655	65*50	50Hz 60Hz	500 500	25.4 25.2	27.6 28.1	3.75

外型尺寸圖 DIMENSIONS



型式 Model	項目 Item	尺寸 Dimension(mm)														口徑 Bore(mm)		法蘭 Flange(mm)			
		A	B	B1	E	G	H	H1	H2	H3	L	L1	L2	L3	N	Inlet	Outlet	Inlet	Outlet		
AMX-440		87.5	140	110	54	130.5	225.5	130.5	75	20	443	200	20	98	12	36	36	40	40		
AMX-441		105.5	160	130	72	151.5	257.5	142.5	85		490	210	35	130		40					
AMX-542(H)	91	260	204	80	139	282.5	162.5	90	30	499	300	20	200	14	50	40	50	50	50		
AMX-552(H)						281.5															
AMX-543(H)						282.5															
AMX-553(H)						281.5															
AMX-653	92	250	220	80	126	331	169	132	30	532	360	30	300	14	65	50	65	50			
AMX-545	91				117	324.5	162.5			593					50	40	50	40			
AMX-555					323.5	161.5	600			50					40	50	50				
AMX-655	92				123	331	169			600					65	50	65	50			

備註：泵浦全長將依泵浦連接界面和型式之不同而有區別
Note: The total length & weight of the pump will differ depending on the brand of the motor.

型式表示 PUMP IDENTIFICATION

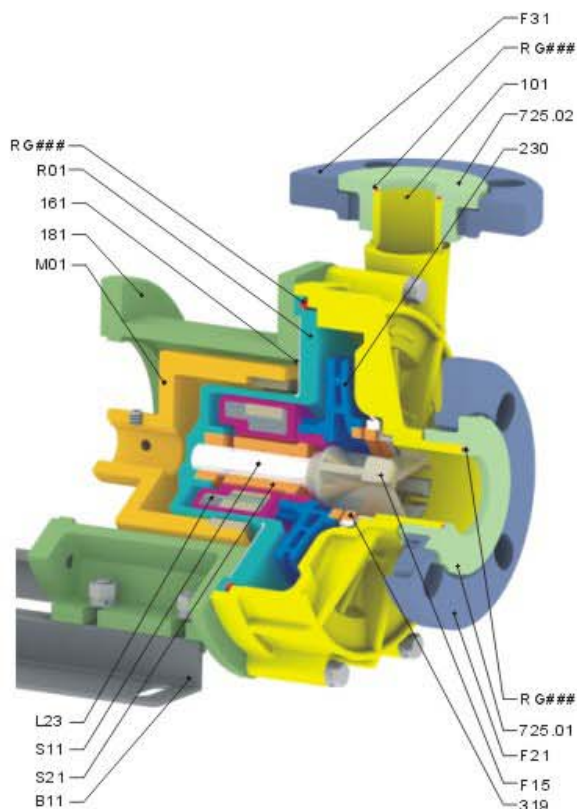
AMX - 5 4 2 F E A C V - 0

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① 系列名稱 Series Symbol	AMX 系列 Series
② 入口口徑 Suction Size	4 : 40 A(1½") 5 : 50 A(2") 6 : 65 A(2½")
③ 出口口徑 Discharge Size	4 : 40 A(1½") 5 : 50 A(2")
④ 馬力數 Motor Power	0 : 1/2 Hp (0.4kW) 1 : 1 Hp (0.75kW) 2 : 2 Hp (1.5kW) 3 : 3 Hp (2.2kW) 5 : 5 Hp (3.75kW)
⑤ 配管形式 Type of Connection	F : 法蘭 Flange U : 由任 Union
⑥ 本體材質 Casing Material	E : ETFE+CF G : PP+GF

⑦ 軸心材質 Shaft Material	A : 99.5 Al ₂ O ₃ S : SSiC
⑧ 軸承材質 Bearing Material	A : 99.5 Al ₂ O ₃ C : CARBON R : PTFE含填充料 PTFE with filler S : SSiC
⑨ O形環材質 O-Ring Material	E : EPDM V : VITON K : 高氟化橡膠 Special FKM
⑩ 馬達型式 Motor Type	0 : IP54 1 : IP55 2 : eG3安全增防爆型 Explosion proof eG3 3 : d2G4耐壓防爆型 Explosion proof d2G4 S : 特殊馬達 Special motor

材質構造圖 MATERIAL



編號 Part code	名稱 Part name		ACE	ACV	SSE	SSV
101	前蓋 Pump casing		PP+GF / ETFE+CF			
161	後蓋背板 Backup plate		SUS304			
181	托架 Bracket		FC			
230	葉片磨損環組 Impeller wear ring assembly	葉片組 Impeller 前磨損環 Front wear ring	PP+GF / ETFE+CF			
			CARBON		SSiC	
319	止推環組 Thrust ring buffer assembly	前緩衝座 Front buffer 前止推環 Front thrust ring	ETFE			
			995 CERAMIC		SSiC	
725.01	入口法蘭連結件 Inlet flange adapter		PP+GF / ETFE+CF			
725.02	出口法蘭連結件 Outlet flange adapter		PP+GF / ETFE+CF			
B11	底座 Base plate*		SUS304			
F15	前軸心支撐 Front shaft support		ETFE+CF			
F21	入口活動法蘭 Inlet adjustable flange**		PP+GF / ETFE+CF			
F31	出口活動法蘭 Outlet adjustable flange**		PP+GF / ETFE+CF			
L23	包膠內輪 Magnet capsule		PP/ ETFE, Nd-Fe-B			
M01	外輪 Drive magnet		Nd-Fe-B			
R01	後蓋止推環組 Rear casing thrust ring assembly	後蓋 Rear casing 後止推環 Rear thrust ring	PP+GF / ETFE+CF			
			995 CERAMIC		SSiC	
RG###	O形環 O-ring		EPDM	VITON	EPDM	VITON
S11	軸心 Shaft		995 CERAMIC		SSiC	
S21	軸承 Bearing		CARBON		SSiC	

備註 Note :

* SUS316或FRP底座可依客戶需求提供。

** AMX系列泵用法蘭結構為一獨特結構設計(含連結件及活動法蘭)，因連結件是接液部件，活動法蘭為非接液部件，所以AMX系列活動法蘭標準材質均為PP+GF，但活動法蘭材質亦可依客戶需求選擇與泵殼本體相同的材質，詳情請洽協磁公司。

* SUS316 or FRP base is available upon customer's request.

** The flange structure of AMX series is a unique design, which includes flange adapter and adjustable flange. The flange adapters are wetting parts and the adjustable flanges are non-wetting parts, this make PP+GF is available as the standard material of AMX series adjustable flange due to no chemical contact. But the adjustable flange material can be also the same as the pump casing in accordance with customer's request. Please contact us for the details.

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