



Expanded fields of application owing to improved corrosion resistance

化工界最頂尖 - 耐酸鹼的權威

日益電機股份有限公司 產品簡介

ZI YI PRODUCT INTRODUCTION

**The World of Teflon
That is Acid and Alkaline Proof...**

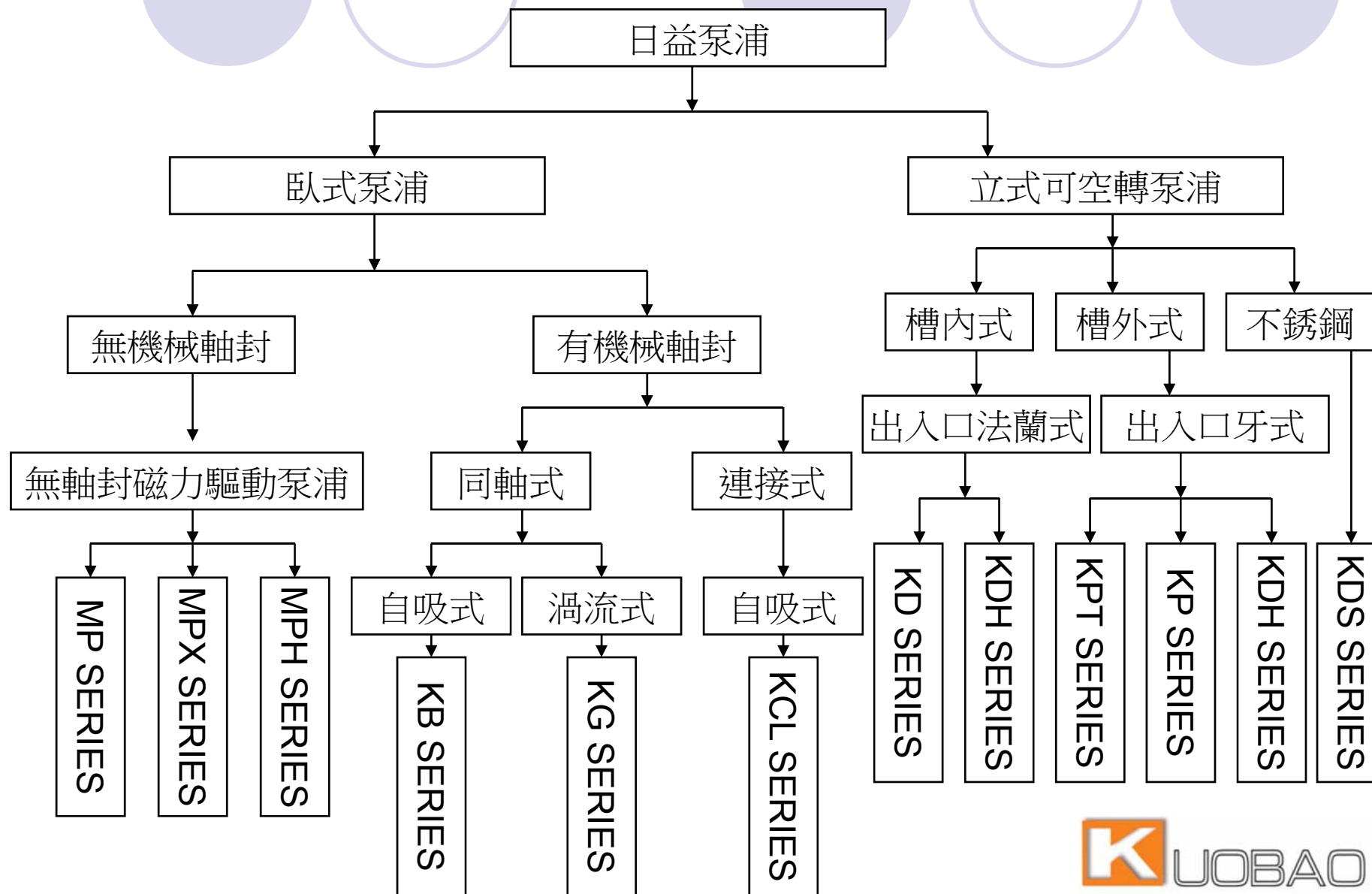
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泵浦的分類 CLASSIFICATION OF PUMP



泵浦特性FEATURE OF PUMP

磁力驅動泵浦MAGNETIC DRIVE PUMP

- 耐酸鹼
Outstanding acid/alkaline
resisting capability
- 抗腐蝕
Corrosion Resisting
- 裝配簡易
Easy to assemble
- 耐久性能高
Maximum durability
- 創新獨特耐空轉設計
Unique design of Bearing for dry
running resistance



2008 TPCA SHOW 實機空運轉

泵浦特性FEATURE OF PUMP

臥式自吸式泵浦SELF-PRIMING PUMP

- 獨特的軸封設計 - 採**Teflon Bellow Seal** 自冷式設計

Specially designed cooling for shaft seal. The built-in teflon bellow seal feature automatic cooling performance.

- 自吸式設計 - 自吸力特別強勁可達**20ft**，並有止回閥設計，防止泵內液體回流

Vaccum self-priming design. Extremely powerful self-priming force. Built with a check valve fully prevent liquid back-flow in the pump.

- 抗腐蝕

Superior corrosion-resistant performance.

- 耐酸鹼

Outstanding acid/alkaline resisting capability



泵浦特性FEATURE OF PUMP

立式可空轉泵浦VERTICAL & DRY RUN PUMP

- 耐高溫耐腐蝕

acid/alkaline, high temperature and corrosion resisting capability.

- 乾式液封可確保馬達及軸承被化學氣體浸蝕

Dry vapor seal ensure to prevent pumps and bearing form etched by chemical gas.

- 可無水空轉，絕不會損壞

No damaged in drying running.

- 創新採用**FRPP**材質之馬達連接座，相較於傳統**FC**馬達前托架能降低酸氣腐蝕及機體重量

Compared to traditional FC motor front cover, motor spacer which is innovatively made of FRPP can dramatically weaken acid corrosion and reduce the weight of machine.



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泵體材質介紹與選用

INTRODUCTION TO BODY MATERIALS AND APPLICATION

- **純PP(聚丙烯)**
磁力驅動泵浦系列(45W~260W)(1/2HP~3HP)
優點 - 可耐大部分化學性及鹼性，耐溫75°C
缺點 - 剛性不強
- **GFRPP(玻纖聚丙烯)**
磁力驅動泵浦系列(45W~260W)(1/2HP~5HP)
立式可空轉泵浦(1/15HP~15HP)
臥式自吸式泵浦(1/2HP~10HP)
優點 - 可耐大部分化學性，耐溫75°C
缺點 - 不耐鹼性
- **CFRPP(碳纖聚丙烯)**
立式可空轉泵浦(1/15HP~15HP)
臥式自吸式泵浦(1/2HP~10HP)
臥式渦流式泵浦(1HP~15HP)
優點 - 可耐大部分化學性及部分鹼性，耐溫65°C
缺點 - 有導電性

泵體材質介紹與選用

INTRODUCTION TO BODY MATERIALS AND APPLICATION

- **CPVC**(氯化聚氯乙烯)
立式可空轉泵浦(1/15HP~15HP)
臥式自吸式泵浦(1/2HP~10HP)
優點 - 可耐大部分化學性及強鹼性，耐溫85°C
缺點 - 不耐溶劑
- **PVDF**(聚偏二氟乙烯)
磁力驅動泵浦系列(45W~260W)(1/2HP~5HP)
立式可空轉泵浦(1/15HP~15HP)
臥式自吸式泵浦(1/2HP~10HP)
優點 - 可耐大部分化學性及溶劑，耐溫95°C
缺點 - 不耐鹼性
- **CFRETFE**(四氟乙烯)
磁力驅動泵浦系列(45W~260W)(1/2HP~5HP)
優點 - 可耐大部分強酸、強鹼性藥水及部分溶劑，耐溫100°C
缺點 - 價格昂貴

橡膠材質介紹與選用

INTRODUCTION TO RUBBER MATERIALS AND APPLICATION

- **NBR**

特性 - 耐弱酸弱鹼及油類

- **EPDM**

特性 - 耐弱酸強鹼，但不耐溶劑及油類

- **VITON**

特性 - 耐強酸微鹼、溶劑及油類，但對苯類有化學反應

磁力驅動泵浦之動作原理

WORKING PRINCIPLE OF MAGNETIC PUMP



- 磁力驅動泵浦係由裝設於葉輪與馬達軸心間的一對磁鐵所驅動，利用磁鐵異性相吸原理，當馬達帶動驅動磁鐵旋轉時，與葉輪上的被動磁鐵結合產生耦合轉矩，提供足夠的動力驅動葉輪旋轉，從而實現液體輸送。
- Magnetic drive pump is driven by a pair of magnet, equipped between the impeller and the motor shaft. Based on the principle of different polarity attract each other, when the motor operating to make the drive magnet running, it combines with the magnet capsule on the impeller to produce a coupling torque. This provides sufficient power to start impeller running for delivering liquid.



無軸封磁力驅動泵浦材質總覽表

MATERIALS TABLE LIST OF MAGNETIC PUMP

系列	馬力	泵體	橡膠	軸心	軸承
MPX SERIES	180W~260W	PP GFRPP PVDF CFRETFE	EPDM VITON HFKM AFLAS	CERAMIC SIC	RULON CFRPPS SIC
MPX SERIES	1/2HP~3HP	PP GFRPP PVDF CFRETFE	EPDM VITON HFKM AFLAS	CERAMIC SIC	CARBON PTFE CERAMIC SIC
MPH SERIES	1/2HP~5HP	PP GFRPP PVDF CFRETFE	EPDM VITON HFKM AFLAS	CERAMIC SIC	CARBON PTFE CERAMIC SIC
MP SERIES	45W~260W	PP GFRPP PVDF CFRETFE	EPDM VITON HFKM AFLAS	CERAMIC SIC	RULON CFRPPS SIC

顆粒

- 少於 5%
- 小於 50 μm
- 硬度在 80Hs 內
- SV-sic 系列

