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## AMA Series ETFE-Lined Magnetic Drive Pumps

## AMA 系列 ETFE 氟塑內襯磁力驅動泵浦



### Specifications

Horizontal, single-stage, centrifugal pump

Magnetic drive, seal-less, close-coupled

Wetted Material: ETFE+CF

Power Range: 5.5 – 18.5 kW (7.5 to 25 hp)

Maximum Capacity: 108 m<sup>3</sup>/h

Maximum Head: 76 m

### 規格一覽表

臥式單段離心泵

直接耦合，磁力驅動，無軸封

接液材質：ETFE+CF

馬力範圍：5.5 – 18.5 kW (7.5 to 25 hp)

最大流量：108 m<sup>3</sup>/h

最高揚程：76 m

## AMA-Series Pumps AMA 系列泵浦

AMA is a series of high capacity pumps used for handling large quantities of liquids in chemical unloading and chemical transfer applications. The metal armor is lined with fluoroplastics and is suitable for handling hazardous chemicals in an outdoors environment. The AMA-Series pumps are designed based on ISO 2858 and ISO 15783 standards.

AMA 系列是專為處理大量化學藥液，如卸載或輸送等用途而設計。此系列泵浦是金屬內襯氟塑料泵，非常適合戶外使用。泵浦安裝尺寸依照 ISO 2858 與 ISO 15783 設計標準。

## How do magnetic drive pumps work? 磁力驅動泵浦操作原理

Magnetic pumps work by using a set of magnetic coupling to transfer the mechanical energy from the motor to the pump's impeller. A drive magnet is attached to the motor shaft. On the pump side, an inner magnet is attached to the pump impeller. The magnetic flux between the drive and inner magnets pass through the pump containment shell, forming the magnetic coupling. The magnetic coupling allows the pump to be hermetically sealed for leak-free operation.

磁力驅動泵浦是使用一組磁耦合器將動能從馬達傳送至泵浦葉片。在馬達端，驅動磁鐵安裝在馬達軸心上。在泵浦端，內磁鐵與泵浦葉片相接。驅動磁鐵與內磁鐵的磁力線迴路穿透泵浦後蓋形成磁耦合器，達成泵浦無需軸封並能完全密封的運轉狀態。

## Where can I use AMA-Series pumps? AMA 系列的運用領域

- Chemicals where leakage must be avoided, including corrosive, toxic, and strong oxidizing agents.
- Potentially flammable and explosive chemicals.
- Highly volatile chemicals that are harmful to the environment.
- Chemicals that react when exposed to atmosphere or chemicals that can degrade with atmospheric exposure.
- Chemicals that are very expensive.
- 絕對不能洩漏之化學藥液，譬如：腐蝕性、有毒性以及強氧化劑
- 易燃或有爆炸可能性之化學藥液
- 對環境有害之高揮發性化學藥液
- 容易與空氣反應，或暴露於空氣會造成裂解的化學藥液
- 昂貴之藥水

## Limitations of AMA-Series pumps? AMA 泵浦的注意事項

- Do not use for chemicals with large amounts of solids.
- Dry-running should be avoided.
- Cavitation should be avoided.
- Operating temperature
- Do not use for chemicals with large amounts of solids.
- 嚴禁空轉
- 避免空蝕
- 操作溫度範圍

ETFE+CF material: 0 - 95 °C

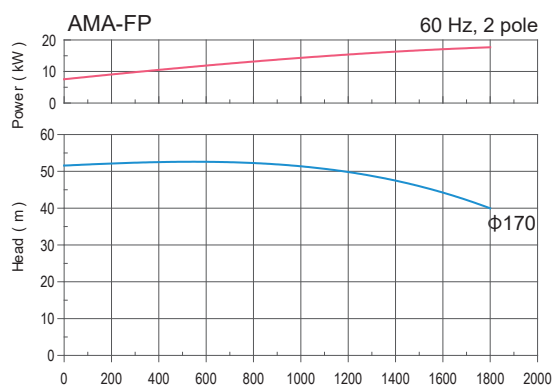
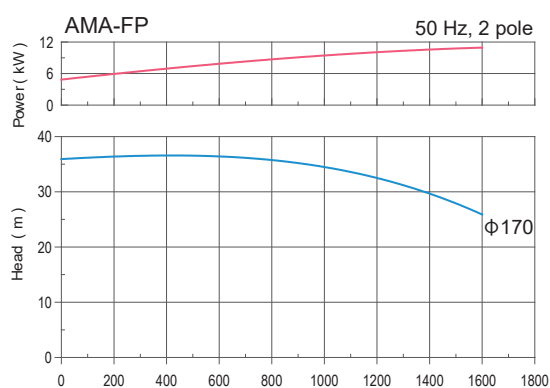
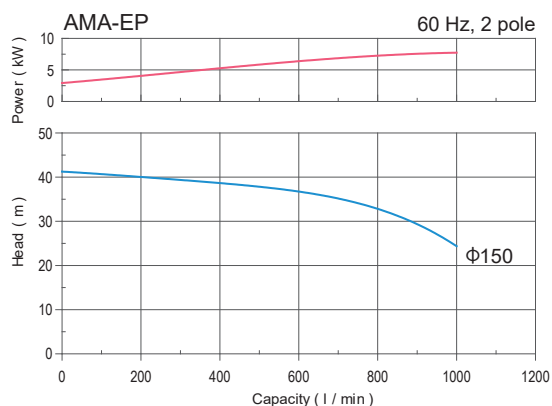
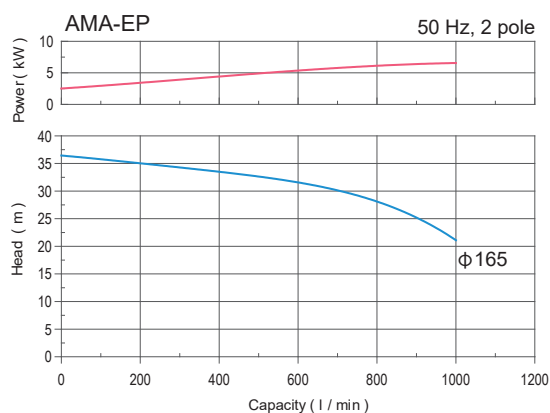
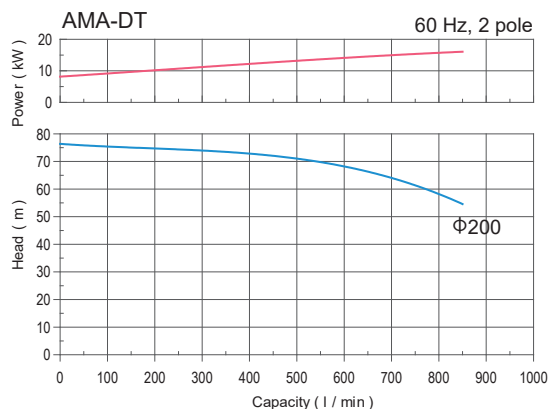
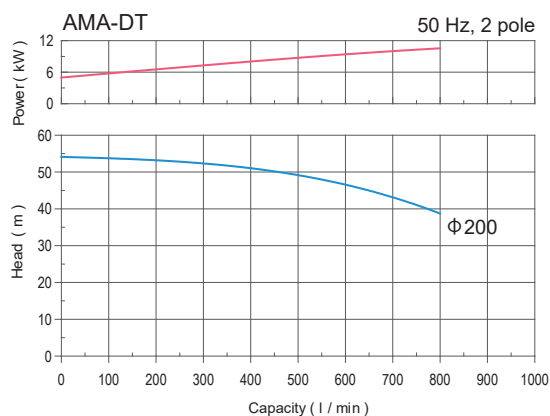
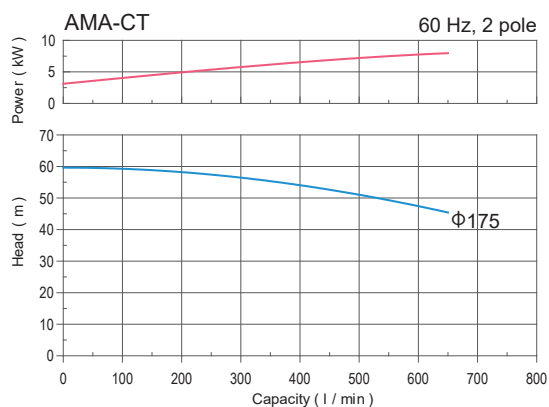
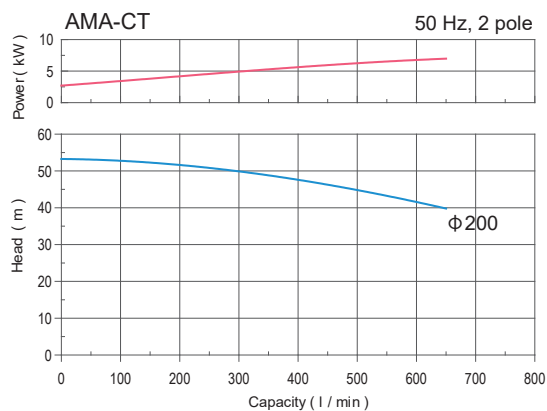
ETFE+CF 材質：0 - 95 °C

Pump Up Your Value™

提升您競爭力的價值夥伴™

協磁®

## Performance Curves 性能曲線圖



### AMA-CT / EP Features 泵浦特點

#### A. Standardized Pump Design Specifications

##### 標準泵浦設計規範

It is important for larger pumps like the AMA-Series to follow internationally recognized design standards. The AMA-Series pumps are designed according to ISO 15783 and ISO 5199 specifications. The installation dimensions conform with ISO 2858 standards. In addition to DIN flanges, ANSI and JIS flanges are available to match mating flange standards.

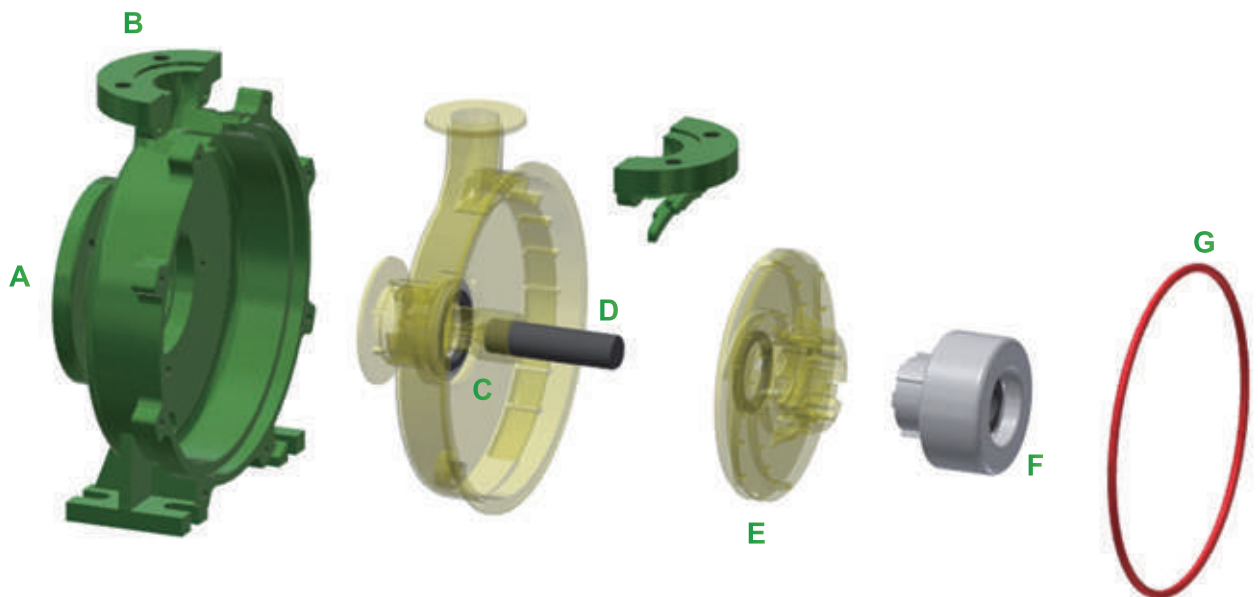
國際規範為中大型泵浦設計的重要依循，AMA 系列遵循 ISO 15783、ISO 5199 設計規範，及 ISO 2858 外型及安裝相關尺寸標準，另外，配管法蘭標準提供 DIN、ANSI 及 JIS 規格供選配。

#### B. High Strength Casing and Armor

##### 高強度泵殼與護體

The carbon fiber reinforced pump lining material can withstand the most corrosive chemicals. The rugged casing armor allows the pump to withstand pressures up to 24 bars (16 bar design pressure). The exterior of the armor is coated with epoxy primer and PU topcoat to protect against corrosive chemicals and aggressive environments.

碳纖維強化的內襯工程塑膠材料可以抵抗大部分腐蝕性化學液體，堅固的前蓋護體可耐壓 24 bars( 泵設計壓力 16 bars)，護體外層塗佈環氧樹脂底漆及 PU 樹脂面漆，兼具耐蝕及耐候性。



#### H. Reinforced Plastic Containment Shell

##### 結構加強全塑料泵浦後蓋

Duo-layered containment shell consists of carbon fiber reinforced ETFE for corrosion resistance, strengthened by a carbon fiber composite outer cover able to resist 35 kg/cm<sup>2</sup> of pressure, to ensure operational safety and durability. The plastic containment shell does not generate any eddy current loss, therefore, no additional heating of the pumped chemical.

雙層後蓋包含接液用的抗腐蝕碳纖維強化氟樹脂 ETFE，並加上外層護體採用高強度碳纖維複合材料可抗壓至 35 kg/cm<sup>2</sup>，確保運轉安全性與可靠度，無金屬的塑料後蓋不會有渦電流的產生，避免渦電流所產生的能量損失與對藥液加熱。

#### I. Back Pull-out Design 背拉式設計

The heavy-duty backup plate provides additional rigid support to the containment shell. It is secured to the pump casing armor, allowing back pull-out servicing of the motor without removing the liquid end of the pump.

高負荷設計後蓋背板用以支撐後蓋，鎖固於前蓋護體形成泵浦接液端，當泵浦設備須維護保養時，以背拉式拉出托架及馬達，泵浦接液端及管路系統可不受影響。

### C. Pump-Protection Buffer System 泵浦緩衝保護

The unique buffer system absorbs shock generated during abnormal pump operation such as cavitation, protecting the pump from damage (AMA-CT model only).

獨特的緩衝系統可吸收泵浦異常運轉時（如氣蝕）所產生的衝擊，防止泵浦受損（僅 AMA-CT 有此結構）。

### D. Rigid Shaft System 堅固軸心系統

The pump shaft is rigidly supported on both ends to provide rigid support for rotating parts. Alumina ceramic shaft material can be paired with several bearing materials to cater to the chemical application. SSiC material is also available to offer superior corrosion and wear resistance.

兩端固定的軸心提供轉動件剛性的支撐，陶瓷軸心材質可依藥水性質選搭不同材質軸承。碳化矽材質則提供最佳耐化與耐磨性。

### E. High-Efficiency Impeller 高效率葉片

Closed impeller precision designed to streamline flow dynamics, minimizing hydraulic loss and maximizing pump efficiency.

密閉式葉輪，結合最佳化流力設計，降低水力損失，提高泵浦效率。

### F. Force-Cooled Bearing System

#### 軸承強制冷卻系統

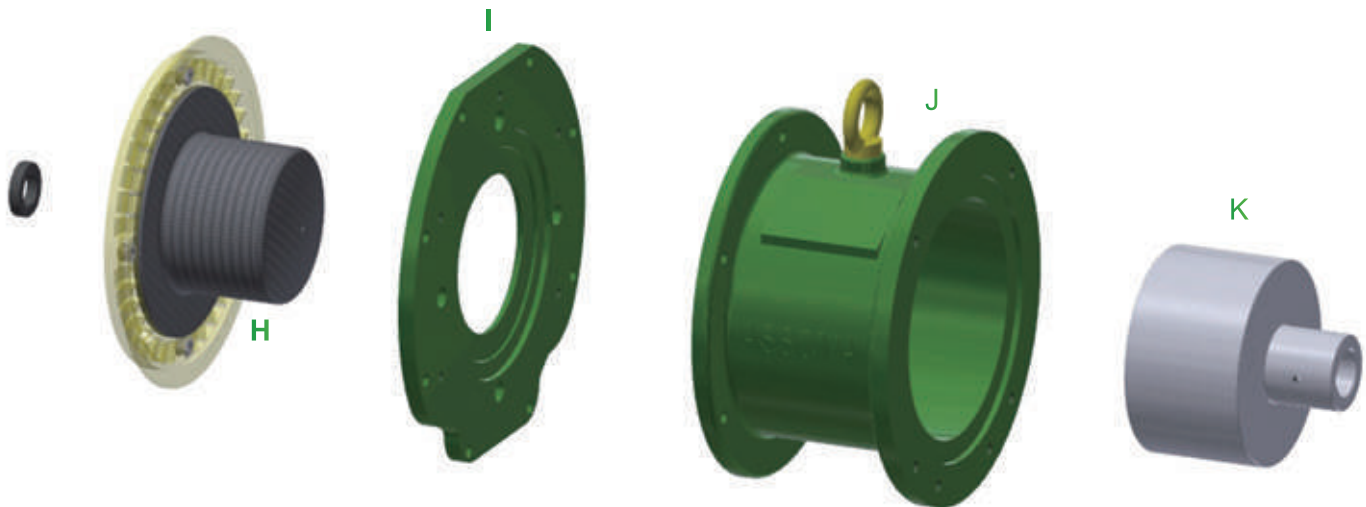
Specially designed flow channels force circulation through the bearing system, rapidly dissipating heat to delay damage to the pump under dry-run conditions.

獨特對流冷卻設計，可快速帶走熱量。泵浦空轉時，可提高抗損壞的能力。

### G. Long-Service Gasket 長效密封墊片

Strengthened gasket seal specially designed for extended leak-free service. It greatly reduces the need to service the pump.

強化的密封墊片設計可延長零洩漏的使用壽命，大幅減少維護泵浦的需求。



### J. Bracket for Standardized Motors

#### 標準馬達托架框

The pump bracket is designed to fit standard IEC motor frames. Easy to source a motor that conforms to regional standards. Closed-coupled design requires no shaft alignment.

泵浦托架尺寸可安裝標準 IEC 馬達框號，可採買符合顧客當地標準的馬達。直接耦合設計不需做對心矯正。

### K. Magnetic Coupling 磁耦合器

Torque from the motor is transferred to the pump impeller through magnetic coupling. The seal-less design is leak-free and there is no seal maintenance necessary.

馬達扭矩透過磁耦合器傳動至泵浦葉輪，無軸封設計零洩漏，也減少保養、維修需求。

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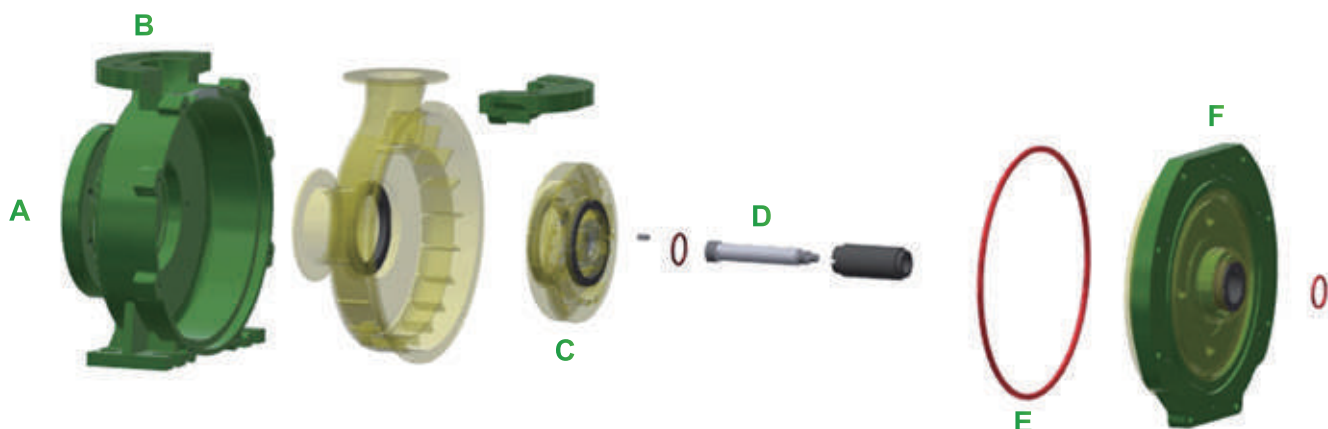
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### D. Dynamic Shaft System 轉動軸系統

The dynamic shaft system consists of a stainless steel shaft to provide strength and an SSiC shaft sleeve for high corrosion resistance. The dynamic shaft system connects the magnet capsule to the pump impeller, transmitting the torque from the magnet capsule to the impeller.

轉動軸系統連結包膠內輪並傳遞扭矩至葉輪，其中不鏽鋼軸心提供高強度扭矩傳遞，外層搭配 SSiC 軸心襯套並密封包含軸心的金屬部件，兼顧高抗化性與高耐磨性。

### E. Long-Service Gasket 長效密封墊片

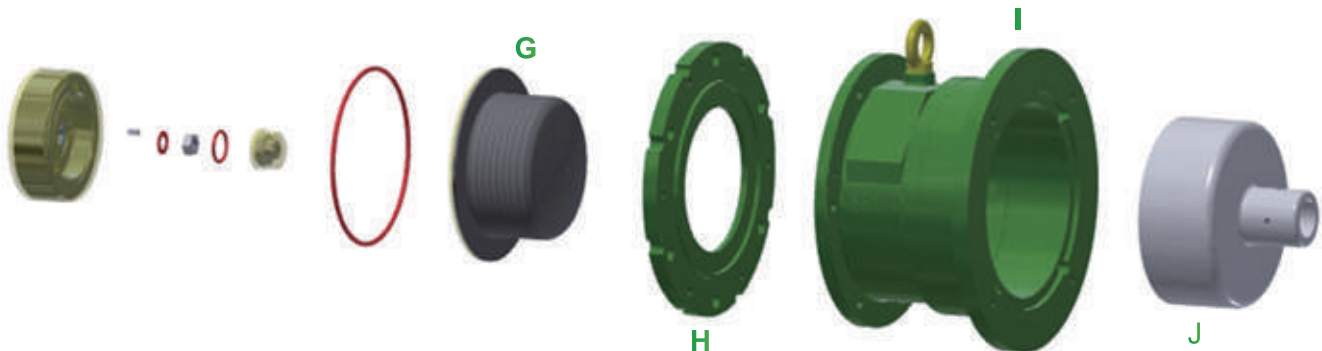
Strengthened gasket seal specially designed for extended leak-free service. Greatly reduces the need to service the pump.

強化的密封墊片設計可延長零洩漏的使用壽命，大幅減少維護泵浦的需求。

### F. High Rigidity Bearing Frame 高剛性軸承框

The bearing frame functions as a highly rigid static support structure for the dynamic shaft system, allowing the pump to be used in heavy-duty applications.

軸承框高剛性地支撐轉動軸系統，讓泵浦可靠的運轉於重負荷條件。



### I. Bracket for Standardized Motors 標準馬達托架框

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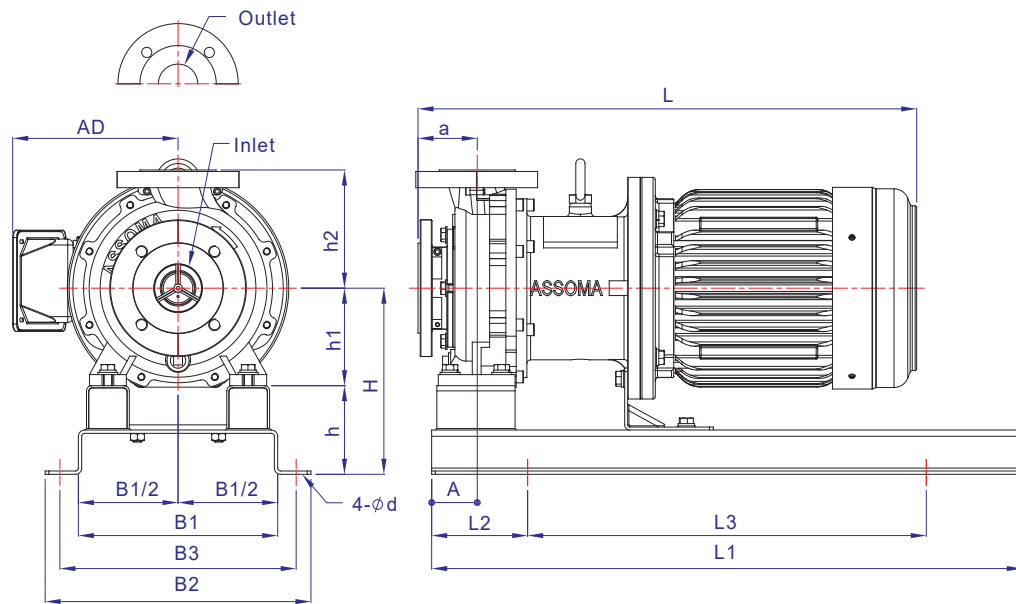
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馬達扭矩透過磁耦合器傳動至泵浦葉輪，無軸封設計零洩漏，也減少保養、維修需求。

### Dimensions 外形尺寸圖

#### AMA-CT / EP



| MODEL  | A  | a  | AD     | B1  | B2  | B3  | d  | H   | h   | h1  | h2  | L | L1  | L2  | L3  | Inlet *** | Outlet *** | OUTPUT |
|--------|----|----|--------|-----|-----|-----|----|-----|-----|-----|-----|---|-----|-----|-----|-----------|------------|--------|
| AMA-CT | 60 | 80 | 224 ** | 270 | 360 | 320 | 18 | 280 | 120 | 160 | 180 | * | 800 | 130 | 540 | 50A       | 32A/40A    | 5.5kW  |
|        |    |    |        |     |     |     |    |     |     |     |     |   |     |     |     |           |            | 7.5kW  |
| AMA-EP | 60 | 80 | 224 ** | 270 | 360 | 320 | 18 | 252 | 120 | 132 | 160 | * | 800 | 130 | 540 | 65A       | 50A        | 5.5kW  |
|        |    |    |        |     |     |     |    |     |     |     |     |   |     |     |     |           |            | 7.5kW  |

Note : \* The total length of the pump will differ depending on the brand and power output (hp) of the motor.

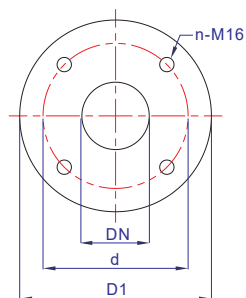
\*\* Dimension will vary depending on the brand and installation of the motor.

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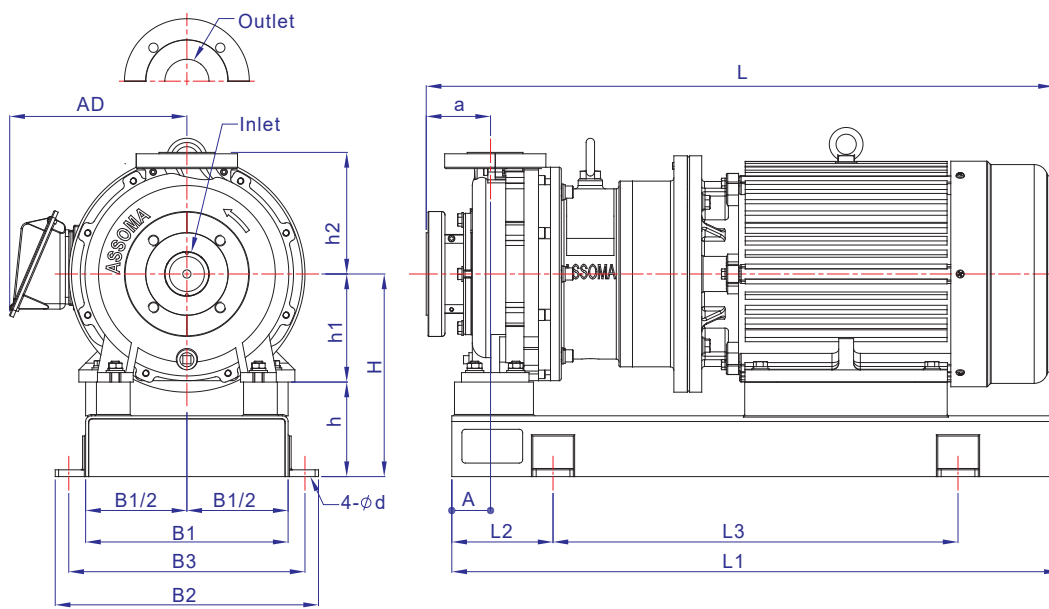
\*\*\* 泵浦出入口法蘭規格可依客戶不同規格需求（ISO、ANSI、JIS）承製。



| DN  | Standard | n | d      | D     |
|-----|----------|---|--------|-------|
| 32A | ISO      | 4 | 100mm  | 140mm |
|     | JIS      |   | 100mm  |       |
| 40A | ISO      | 4 | 110mm  | 150mm |
|     | JIS      |   | 105mm  |       |
|     | ANSI     |   | 3 7/8" |       |
| 50A | ISO      | 4 | 125mm  | 165mm |
|     | JIS      |   | 120mm  |       |
|     | ANSI     |   | 4 3/4" |       |
| 65A | ISO      | 4 | 145mm  | 185mm |
|     | JIS      |   | 140mm  |       |
|     | ANSI     |   | 5 1/2" |       |

## Dimensions 外形尺寸圖

### AMA-DT / FP



| MODEL  | A  | a   | AD     | B1  | B2  | B3  | d  | H   | h   | h1  | h2  | L | L1  | L2  | L3  | Inlet *** | Outlet *** | OUTPUT |
|--------|----|-----|--------|-----|-----|-----|----|-----|-----|-----|-----|---|-----|-----|-----|-----------|------------|--------|
| AMA-DT | 60 | 100 | 263 ** | 300 | 390 | 350 | 20 | 300 | 140 | 160 | 180 | * | 900 | 150 | 600 | 65A       | 40A        | 11kW   |
|        |    |     |        |     |     |     |    |     |     |     |     |   |     |     |     |           |            | 15kW   |
|        |    |     |        |     |     |     |    |     |     |     |     |   |     |     |     |           |            | 18.5kW |
| AMA-FP | 60 | 100 | 263 ** | 300 | 390 | 350 | 20 | 300 | 140 | 160 | 180 | * | 900 | 150 | 600 | 80A       | 65A        | 11kW   |
|        |    |     |        |     |     |     |    |     |     |     |     |   |     |     |     |           |            | 15kW   |
|        |    |     |        |     |     |     |    |     |     |     |     |   |     |     |     |           |            | 18.5kW |

Note : \* The total length of the pump will differ depending on the brand and power output (hp) of the motor.

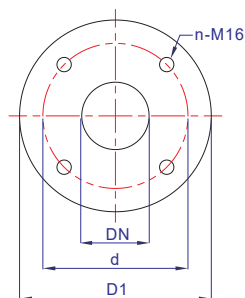
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| DN  | Standard | n | d      | D     |
|-----|----------|---|--------|-------|
| 40A | ISO      | 4 | 110mm  | 150mm |
|     | JIS      |   | 105mm  |       |
|     | ANSI     |   | 3 7/8" |       |
| 65A | ISO      | 4 | 145mm  | 185mm |
|     | JIS      |   | 140mm  |       |
|     | ANSI     |   | 5 1/2" |       |
| 80A | ISO      | 8 | 160mm  | 200mm |
|     | JIS      |   | 150mm  |       |
|     | ANSI     | 4 | 6"     |       |

### Specifications 規格表

| Model<br>機型 | Inlet x Outlet<br>Bore size<br>入口 x 出口<br>口徑 (mm) | 50 Hz                                |                           |                             |                               | 60 Hz                                |                           |                             |                               | Motor<br>馬達<br>(kW) |
|-------------|---------------------------------------------------|--------------------------------------|---------------------------|-----------------------------|-------------------------------|--------------------------------------|---------------------------|-----------------------------|-------------------------------|---------------------|
|             |                                                   | Impeller<br>diameter<br>葉輪尺寸<br>(mm) | Capacity<br>流量<br>(l/min) | Total<br>head<br>全揚程<br>(m) | Shaft<br>power<br>軸功率<br>(kW) | Impeller<br>diameter<br>葉輪尺寸<br>(mm) | Capacity<br>流量<br>(l/min) | Total<br>head<br>全揚程<br>(m) | Shaft<br>power<br>軸功率<br>(kW) |                     |
| AMA-CT      | 50 x 32<br>(50 x 40)                              | 200                                  | 300                       | 49.9                        | 4.9                           | 175                                  | 300                       | 56.3                        | 5.8                           | 5.5 or 7.5          |
|             |                                                   | 190                                  | 300                       | 46.3                        | 4.5                           | 170                                  | 300                       | 52.5                        | 5.3                           |                     |
|             |                                                   | 180                                  | 300                       | 41.5                        | 3.9                           | 160                                  | 300                       | 46.6                        | 4.6                           |                     |
|             |                                                   | 170                                  | 300                       | 36.6                        | 3.4                           | 150                                  | 300                       | 40.7                        | 3.9                           |                     |
|             |                                                   | 160                                  | 300                       | 32.0                        | 2.9                           | 140                                  | 300                       | 33.6                        | 3.2                           |                     |
| AMA-DT      | 65 x 40                                           | 200                                  | 400                       | 50.9                        | 8.0                           | 200                                  | 400                       | 73.3                        | 12.3                          | 11, 15 or 18.5      |
|             |                                                   | 190                                  | 400                       | 44.3                        | 7.0                           | 190                                  | 400                       | 63.7                        | 10.6                          |                     |
|             |                                                   | 180                                  | 400                       | 39.4                        | 5.9                           | 180                                  | 400                       | 56.6                        | 9.3                           |                     |
|             |                                                   | 170                                  | 400                       | 33.6                        | 5.5                           | 170                                  | 400                       | 48.9                        | 8.3                           |                     |
|             |                                                   | 160                                  | 400                       | 28.4                        | 4.7                           | 160                                  | 400                       | 41.8                        | 7.1                           |                     |
| AMA-EP      | 65 x 50                                           | 165                                  | 500                       | 32.3                        | 4.9                           | 150                                  | 500                       | 37.6                        | 5.9                           | 5.5 or 7.5          |
|             |                                                   | 160                                  | 500                       | 30.0                        | 4.5                           | 145                                  | 500                       | 34.6                        | 5.4                           |                     |
|             |                                                   | 155                                  | 500                       | 28.3                        | 4.1                           | 140                                  | 500                       | 31.4                        | 4.9                           |                     |
|             |                                                   | 150                                  | 500                       | 26.2                        | 3.8                           | 135                                  | 500                       | 28.3                        | 4.5                           |                     |
|             |                                                   | 145                                  | 500                       | 24.2                        | 3.5                           | 130                                  | 500                       | 26.1                        | 4.1                           |                     |
| AMA-FP      | 80 x 65                                           | 170                                  | 1000                      | 34.9                        | 9.2                           | 170                                  | 1000                      | 51.3                        | 14.4                          | 11, 15 or 18.5      |
|             |                                                   | 160                                  | 1000                      | 29.1                        | 8.0                           | 160                                  | 1000                      | 43.4                        | 12.4                          |                     |
|             |                                                   | 150                                  | 1000                      | 23.6                        | 6.4                           | 150                                  | 1000                      | 35.8                        | 10.2                          |                     |
|             |                                                   | 140                                  | 1000                      | 21.4                        | 6.0                           | 140                                  | 1000                      | 27.7                        | 8.3                           |                     |

### Pump identification 型式表示

AMA - FP F E S S V - T O

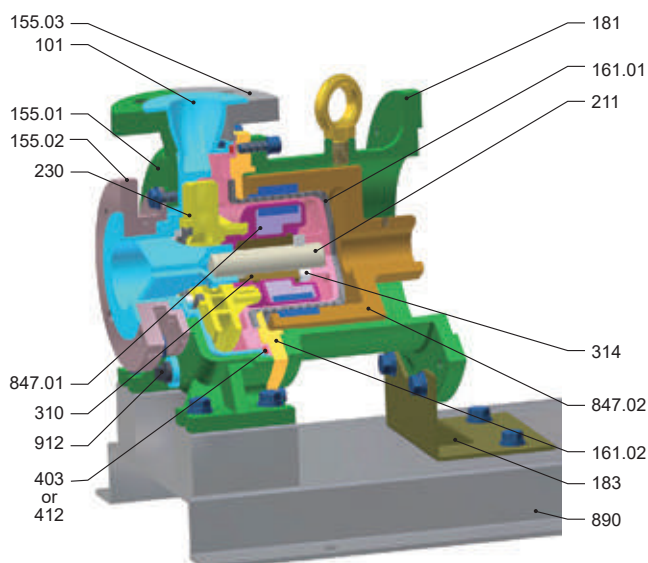
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

|                                                  |                                                                                                                                     |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| ① Series<br>泵浦系列                                 | AMA Series<br>AMA 系列                                                                                                                |
| ② Pump model<br>機型表示                             | Pump designation according to ISO 2858<br>對應 ISO 2858 之泵浦命名<br>CT : 50-32-200<br>DT : 65-40-200<br>EP : 65-50-160<br>FP : 80-65-160 |
| ③ Type of Connection<br>配管形式                     | F : Flange 法蘭                                                                                                                       |
| ④ Casing Material<br>本體材質                        | E : ETFE+CF                                                                                                                         |
| ⑤ Shaft or Shaft Sleeve<br>Material<br>軸心或軸心襯套材質 | A : 995 Al <sub>2</sub> O <sub>3</sub><br>S : SSiC                                                                                  |

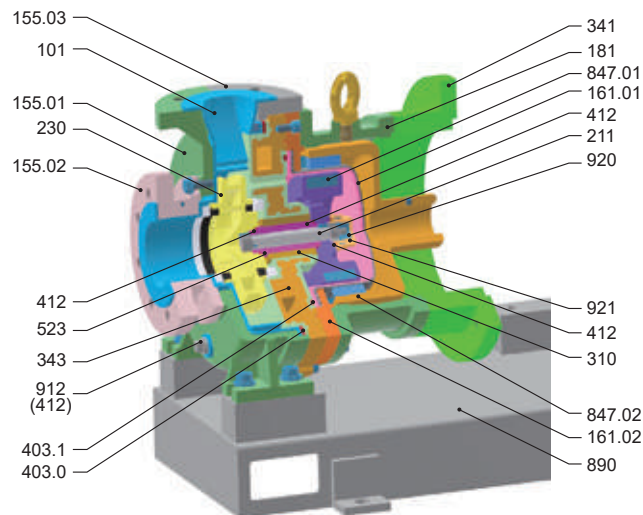
|                             |                                                                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| ⑥ Bearing Material<br>軸承材質  | C : Carbon<br>S : SSiC                                                                                                                         |
| ⑦ Sealing Material<br>密封材質  | E : EPDM<br>V : FKM<br>P : PTFE+FKM                                                                                                            |
| ⑧ Motor Power<br>馬力數        | AMA-CT/EP<br>G : 5.5 kW ( 7.5 hp )<br>J : 7.5 kW ( 10 hp )<br>AMA-DT/FP<br>O : 11 kW ( 15 hp )<br>T : 15 kW ( 20 hp )<br>Y : 18.5 kW ( 25 hp ) |
| ⑨ Protection Type<br>馬達防護等級 | 0 : IP54<br>1 : IP55<br>2 : eG3 Explosion proof<br>安全增防爆型 eG3<br>3 : d2G4 Explosion proof<br>耐壓防爆型 d2G4<br>S : Special motor 特殊馬達              |

## Material 材質構造圖

### AMA-CT / EP



### AMA-DT / FP



| Part code<br>編號 | Part name<br>名稱                       |                        | Available Materials<br>可選擇材質              | Model<br>機型 |
|-----------------|---------------------------------------|------------------------|-------------------------------------------|-------------|
| 101             | Pump casing assembly<br>前蓋組           | Pump casing 前蓋         | ETFE+CF                                   | CT/DT/EP/FP |
|                 |                                       | Front thrust ring 前止推環 | 995 Al <sub>2</sub> O <sub>3</sub> / SSiC | CT/EP       |
| 155.01          | Casing armour 前蓋護體                    |                        | SSiC                                      | DT/FP       |
| 155.02          | Inlet armour 入口護體                     |                        | FCD450                                    | CT/DT/EP/FP |
| 155.03          | Outlet armour 出口護體                    |                        | FCD450                                    | CT/DT/EP/FP |
| 161.01          | Rear casing with cover 後蓋被覆組          |                        | ETFE+CF, Carbon FRP                       | CT/DT/EP/FP |
| 161.02          | Backup plate 後蓋背板                     |                        | FCD450                                    | CT/DT/EP/FP |
| 181             | Bracket 托架                            |                        | FC                                        | CT/DT/EP/FP |
| 183             | Bracket foot 托架支撐                     |                        | SUS304                                    | CT/EP       |
| 211             | Shaft 軸心                              |                        | 995 Al <sub>2</sub> O <sub>3</sub> /SSiC  | CT/EP       |
|                 |                                       |                        | SUS316                                    | DT/FP       |
|                 |                                       |                        |                                           |             |
| 230             | Impeller wear ring assembly<br>葉片磨損環組 | Impeller 葉片組           | ETFE+CF                                   | CT/DT/EP/FP |
|                 |                                       | Front wear ring 前磨損環   | Carbon/SSiC                               | CT/EP       |
|                 |                                       | Rear wear ring 後磨損環    | SSiC                                      | DT/FP       |
| 310             | Bearing 軸承                            |                        | SSiC                                      | DT/FP       |
|                 |                                       |                        | Carbon/SSiC                               | CT/EP       |
| 314             | Rear thrust ring 後止推環                 |                        | 995 Al <sub>2</sub> O <sub>3</sub> /SSiC  | CT/EP       |
| 341             | Bracket adapter 托架連結件                 |                        | FC                                        | DT/FP       |
| 343             | Bearing frame assembly<br>軸承框組        | Bearing frame 軸承框      | FC                                        | DT/FP       |
|                 |                                       | Rear thrust ring 後止推環  | SSiC                                      | DT/FP       |
| 403             | Gasket 密封墊片                           |                        | EPDM/FKM/PTFE+FKM                         | CT/DT/EP/FP |
| 412             | O-ring O 形環                           |                        | EPDM/FKM                                  | CT/DT/EP/FP |
| 523             | Shaft sleeve 軸心襯套                     |                        | SSiC                                      | DT/FP       |
| 847.01          | Magnet capsule 內輪包覆                   |                        | ETFE, Nd-Fe-B                             | CT/DT/EP/FP |
| 847.02          | Drive magnet 外輪                       |                        | Nd-Fe-B                                   | CT/DT/EP/FP |
| 890             | Base plate 底座                         |                        | SUS304                                    | CT/DT/EP/FP |
| 912             | Drain plug 排洩栓                        |                        | ETFE+CF                                   | CT/DT/EP/FP |
| 920             | Nut & washer 固定螺帽 & 華司                |                        | SUS316                                    | DT/FP       |
| 921             | Shaft nut 軸固定螺帽                       |                        | ETFE                                      | DT/FP       |

※ AFLAS & FFKM is available upon customer's request.

AFLAS 及全氟化橡膠密封件可依客戶需求提供。



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