PLASTIC MAG DRIVE

Crest Pumping Services
Chemical Pumping Solutions

AMA

Capacity <108 m3/hr

Head <80 meters

Run-dry Technology

High Efficiency

High Temp. Resistance

FEATURES

High Efficiency Performance + + Choice of Durable Materials
Patented Run Dry Design + + Iron Casing Armour
Patented Buffer System + + Magnetically Driven
ISO 2858/3661/2084/5199 + + Suitable to 95°C

Overview

The AMA range of mag drive chemical pumps are designed to ISO2858, ISO3661 and ISO2084 standards. Built to withstand tough conditions of high temperatures, high pressures and highly corrosive applications.

The AMA range is one of the most efficient mag drive pumps in the market, offering up to a **70% operating efficiency**, reducing operating costs and energy consumption.

Run Dry Technology

Running dry is one of the biggest causes of failure to pumps in the industry.
To reduce down time for your business Crest's mag drive pumps have a patented unique run-dry design which helps prevent the pump failing when there is a problem in the production line.
As an assurance to your business that our pumps are quality built and reliable, we offer as standard 18 months warranty.

Heavy Duty Design

The AMA Mag Drive range incorporates a unique buffer system, designed to absorb vibrations 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, minimizing wear and increasing service life.
Combined with high temperature resistance; the AMA range can pump all different types of corrosive applications with ease.

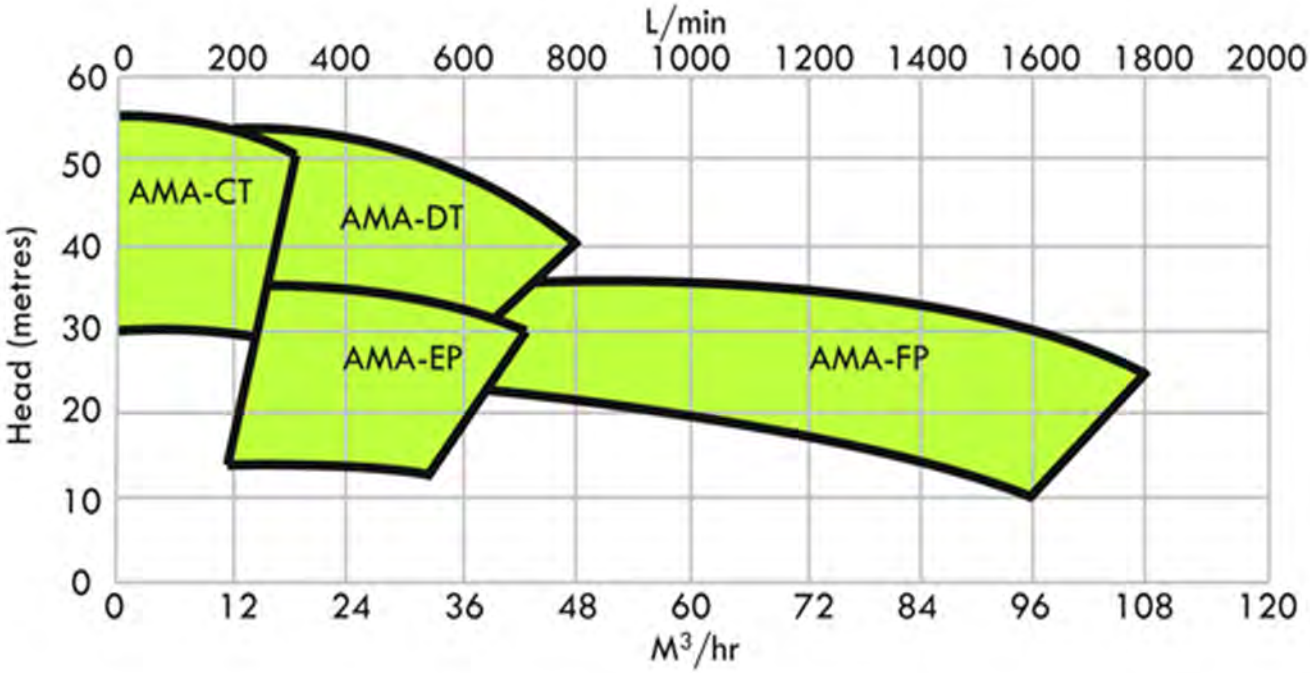
info@crestpumps.co.uk 01425 627700 www.crestpumps.co.uk

PLASTIC MAG DRIVE

Crest Pumping Services
Chemical Pumping Solutions

AMA

Model Curve



Specifications

Model	Suction/Discharge	Speed	Rated Capacity	Rated Head	Max Capacity	Max Head	Motor Output	Best Efficiency
AMA	(mm*mm)	(rpm)	(m3/hr)	(m)	(m3/hr)	(m)	(kw)	(%)
CT	50*32	2900	450	45	750	54	5.5	69
EP	65*50	2900	600	33	1000	37	7.5	74
DT	65*40	2900	600	45	900	57	11	75
FP	80*65	2900	1200	32	1800	38	15	77

No Obsolete Part Policy

Our whole range of Magnetic Drive come with our No Obsolete Parts policy guarantee. Meaning if you have had a Crest pump for over 40 years, we will still be able to provide you with parts and an exact replacement to minimise disruption to your process.

PLASTIC MAG DRIVE

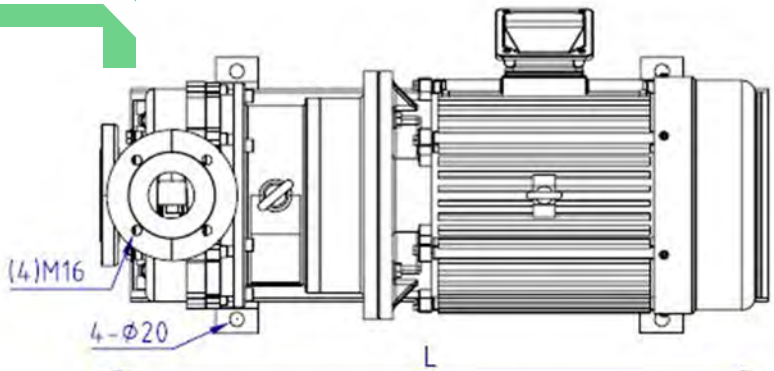
Crest Pumping Services
Chemical Pumping Solutions

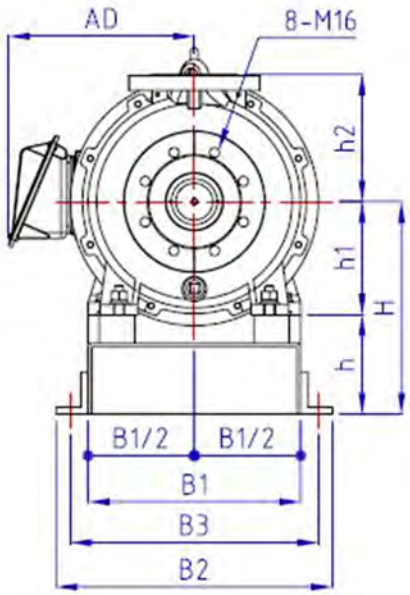
AMA

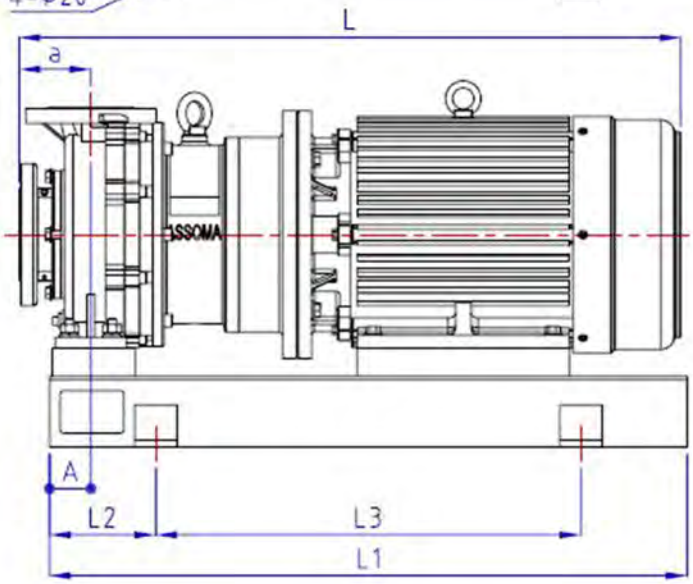
Dimensions

Model shown is the AMA-FP with polypropylene baseplate.

For specific CAD or 3D drawings of other models, please contact crest directly.







Item / Model	Dimension (mm)														Weight (kg)		
	A	a	AD	B1	B2	B3	H	h	h1	h2	L	L1	L2	L3	Pump	Motor	Net Wt.
AMIC-FP-O	60	100	263	300	390	350	300	140	160	180	890	900	150	600	126	104	230
AMIC-FP-T															126	122	248
AMIC-FP-Y											934				127	138	262

*Contact Crest Pumps direct for specific model dimensions
* The total length & weight of the pump will differ depending on the brand of the motor.
* All dimensions are in millimetres - tolerances are +-5mm.

APPLICATIONS

Chemical

Food & Beverage

Pharmaceutical

Water Treatment

info@crestpumps.co.uk 01425 627700 www.crestpumps.co.uk

PLASTIC MAG DRIVE

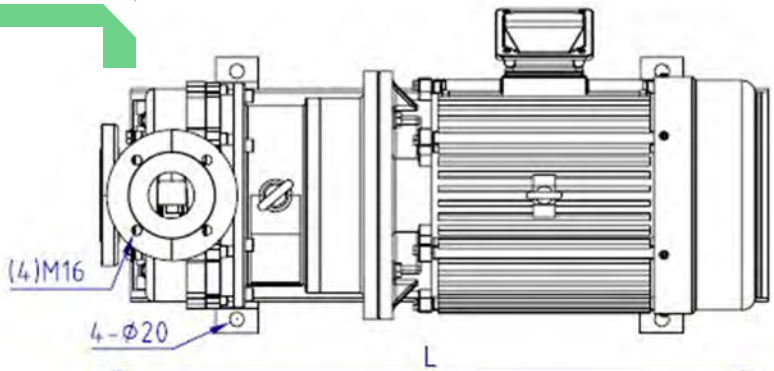
Crest Pumping Services
Chemical Pumping Solutions

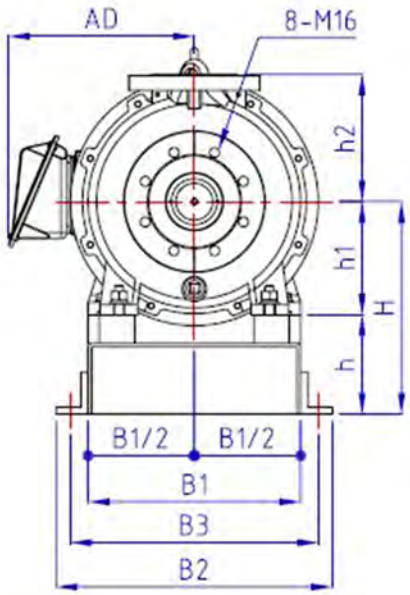
AMA

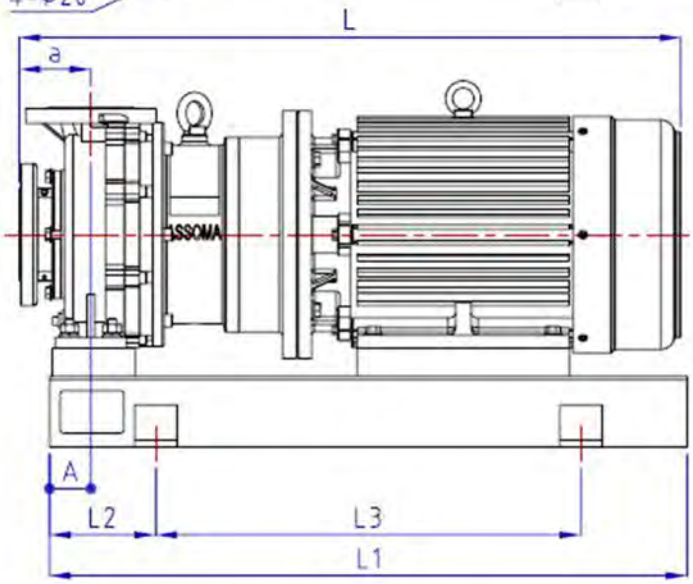
Dimensions

Model shown is the AMA-FP with polypropylene baseplate.

For specific CAD or 3D drawings of other models, please contact crest directly.







Item / Model	Dimension (mm)														Weight (kg)		
	A	a	AD	B1	B2	B3	H	h	h1	h2	L	L1	L2	L3	Pump	Motor	Net Wt.
AMIC-FP-O	60	100	263	300	390	350	300	140	160	180	890	900	150	600	126	104	230
AMIC-FP-T															126	122	248
AMIC-FP-Y											934				127	138	262

*Contact Crest Pumps direct for specific model dimensions
* The total length & weight of the pump will differ depending on the brand of the motor.
* All dimensions are in millimetres - tolerances are +-5mm.

APPLICATIONS

Chemical

Food & Beverage

Pharmaceutical

Water Treatment

info@crestpumps.co.uk 01425 627700 www.crestpumps.co.uk

PLASTIC MAG DRIVE

Crest Pumping Services
Chemical Pumping Solutions

AMA

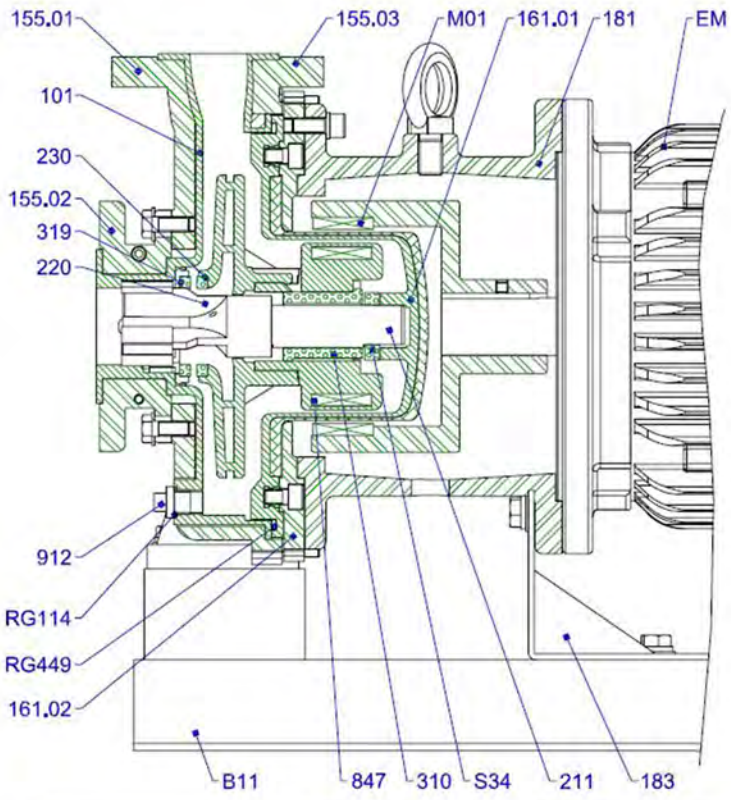
Flexibility

Our full Mag Drive range is flexible to your design and business requirements.
All parts are customisable to make sure the AMA range is fully corrosion resistant to your application.

Ex-Stock

To minimise any disruption to your process, all pumps and variations (polypropylene, ETFE, Carbon, ceramic, SSiC, Viton, EPDM) are available ex-stock. This also includes all spare parts.
To avoid any nasty surprises for the user, all spares are just as competitively priced as the complete pumps.

We do not operate a cheap pump, expensive spares policy.



PART		MAT'L CODE	ACE	ACV	SSE	SSV	QTY
101	Pump casing		ETFE+CF				1
155.01	Casing armour		FCD				1
155.02	Inlet armour		FCD				1
155.03	Outlet armour		FCD				1
161.01	Rear casing with cover		ETFE+CF,CARBON FRP				1
161.02	Backup plate		FCD				1
181	Bracket		FC				1
183	Bracket foot		SUS304				1
211	Shaft		995 CERAMIC		SSIC		1
220	Front support,Shaft		ETFE+CF				1
230	Impeller wear ring assembly	Impeller	ETFE+CF				1
		Front wear ring	CARBON		SSIC		1
310	Bearing		CARBON		SSIC		1
319	Thrust ring & buffer	Front buffer	ETFE				1
		Front thrust ring	995 CERAMIC		SSIC		1
847	Magnet capsule		ETFE, Nd-Fe-B				1
912	Drain plug		ETFE+CF				1
B11	Base plate		SUS304				1
EM	Motor		Aluminum Alloy / FC				1
M01	Drive magnet		Nd-Fe-B				1
RG###	O-ring		EPDM	VITON	EPDM	VITON	2
S34	Rear thrust ring		995 CERAMIC		SSIC		1

PLASTIC MAG DRIVE

Crest Pumping Services
Chemical Pumping Solutions

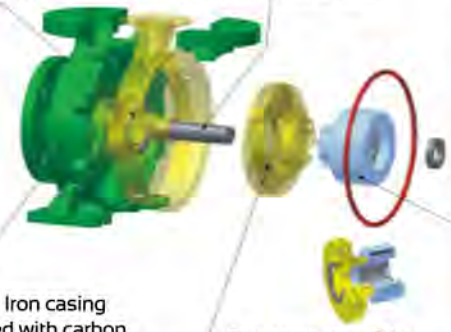
AMA

Exploded View

AMA - CT / EP

The innovative dynamic buffer system is specially designed to absorb vibrations caused by adverse operation conditions.

The stationary shaft provides rotational parts with rigid and stable operational conditions. Available in SiC or ceramic, giving the pump superior abrasive and corrosion resistance.



The ductile Iron casing armour is lined with carbon fibre reinforced with ETFE for nearly universal corrosion resistance and structural strength.

The geometry of the impeller and casing are fine tuned by a design programme to reduce hydraulic loss and increase efficiency.

The moulded carbon fibre reinforced ETFE casing offers a combination of strength and chemical resistance.

The latest magnetic field analysis programme is used to calculate magnetic torque This maximises magnet utilization and ensures a sufficient torque coupling to prevent de-coupling.

The revolutionized bearing design with dual-channel circulation on both the inner and outer surfaces contributes to rapid heat dissipation. The circulation leakage of a seal-less pump is fully utilized to reinforce convectional heat transfer that lowers thermal balancing temperatures.

An extra heavy duty backplate made of ductile iron precisely aligns and supports the rear casing with the front casing. This is separate from the bracket allowing pull out servicing with out opening the liquid end of the pump.

AMA - DT / FP

The AMA - DT/FP pumps are constructed from a stainless steel shaft, SiC or ceramic shaft sleeve, impeller and magnet capsule which are tight locked together by the shaft nut. This gives the impeller a stable torque transmission for all heavy duty applications. The design of an anti-reverse structure at both shaft ends helps prevent possible impeller damage from reverse rotation of the motor.

The ductile Iron casing armour is lined with carbon fibre reinforced with ETFE for nearly universal corrosion resistance and structural strength.

An integrated one piece impeller enhances locking power with the shaft and gives a longer service life. All impellers are designed with pump efficiency as top priority.

The moulded carbon fibre reinforced ETFE casing offers a combination of strength and chemical resistance.

The latest magnetic field analysis programme is used to calculate magnetic torque This maximises magnet utilization and ensures a sufficient torque coupling to prevent de-coupling.

The high strength bearing support structure is used to support the bearing bushing for stable operation. The high purity siC axial and radial thrust bearing are designed with high torsional security to provide superior abrasive and corrosion resistance

An extra heavy duty backplate made of ductile iron precisely aligns and supports the rear casing with the front casing. This is separate from the bracket allowing pull out servicing with out opening the liquid end of the pump.

info@crestpumps.co.uk 01425 627700 www.crestpumps.co.uk

PLASTIC MAG DRIVE

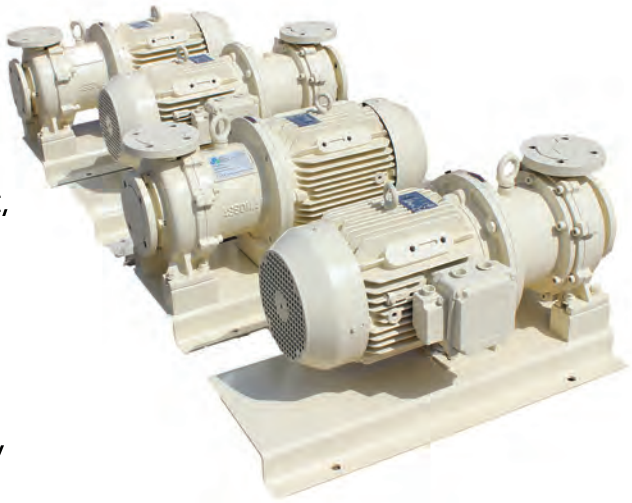
Crest Pumping Services
Chemical Pumping Solutions

AMA

OVIVO

Ovivo had a very specific set of requirements for two Thermal Power Plant projects in Saudi Arabia via Hyundai Heavy Industries. This included various paint, motor and testing requirements for pumps to be situated in a hot, desert climate.

This was part of a $3.2bn project and Ovivo wanted to choose a company they could trust for not only product quality and reliability, but also at an economic price.
All 8 pumps were supplied on time and exactly to the demanding specification required.



Previous Clients

Invotec SOLUTIONS · OVIVO · Coca-Cola · VEOLIA WATER

WHY CREST?

To make sure your production line stays as smooth and as efficient as possible, Crest Pumps Group offer a 'One Stop Shop' for all your business requirements, making sure every pump is tailored to your exact specifications.

Experience

Our 40+ years experience manufacturing, supplying and distributing chemical pumps means we have seen and learnt from all types of pumping system problems. Highly experienced and skilled engineers are on hand to help you with your application.

Ex-stock

To ensure absolute minimal down-time for your business, we are always increasing our stock-holding levels to provide quick deliveries, usually within 24 hours.

Family

Your satisfaction is our number one priority. We are proud to be a family business that is focused soley on supplying excellent service at a competitive price.

"I have been using Crest Pumps for over 30 years, I have found them to be extremely reliable, even on the most aggressive and corrosive applications. I am very happy with their service and I am delighted to endorse their product range"

Mr. S - Project Engineer - GEA Process Engineering

"I have found Crest Pumps to be a company I can rely on for both competitive pricing and timely delivery on a wide range of pumps. Their technical staff have been helpful in selecting the right pumps for each application and have been quick to respond to our enquiries"

Mr. W - Project Manager - Gee & Co Ltd

info@crestpumps.co.uk 01425 627700 www.crestpumps.co.uk