



**AMX**  
Capacity <800l/m

Head <35 meters

Run-dry Technology

Polypropylene/ETFE

Corrosion Resistant

## FEATURES

- High Efficiency Performance + + Patented Buffer System
- Ex-Stock Availability + + Magnetically Driven
- Patented Run Dry Design + + Choice of Durable Materials

### Reduced Life Cycle Cost

To reduce your costs over the life of a pump, the AMX range has two distinct features. If a pump is run dry, it will normally mean a failure at the seal causing an expensive and hazardous leak. As a magnetic drive pump it is sealless, so even if the pump should fail from running dry, you will not have the associated costs. However the AMX range have a patented run dry design that dissipates the heat build up caused from running dry and preventing any damage to the pump.

The second patented design feature of the AMX range will increase your mean time between servicing and therefore save you further costs. Should a mag drive pump be subjected to adverse operating conditions, the vibration and shock will significantly reduce the life of the parts. The dynamic buffer system acts as a shock absorber between the impeller and casing, minimising wear and prolonging service life.

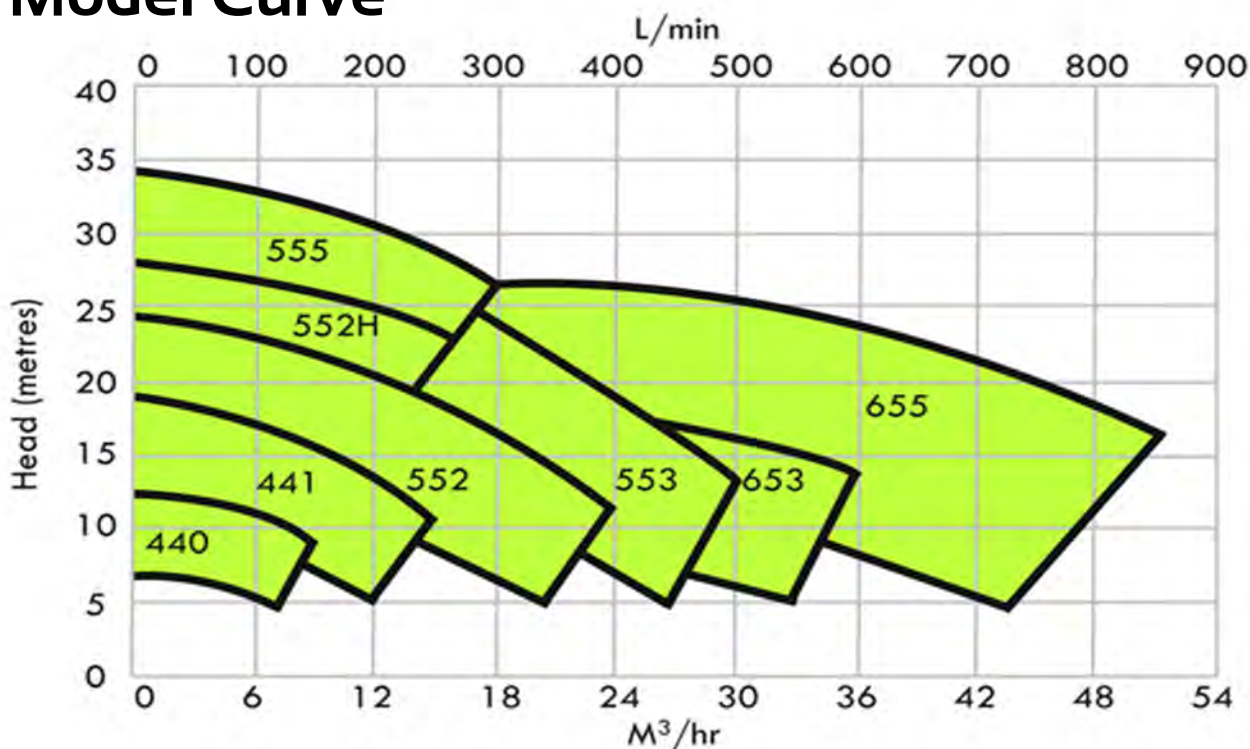
### High Efficiency Design

The geometry of the impeller and the casing are generated through hydraulic design programmes. Whilst taking into account fluid dynamics, hydraulic loss is minimised and pump efficiency maximised.

The AMX range can operate up to **70% efficiency**. Lower electricity costs also come from IE2 motors as standard and the impeller diameter being trimmed to your required duty point.



## Model Curve



## Specifications

Model	Suction/Discharge	Speed	Rated Capacity	Rated Head	Max Capacity	Max Head	Motor Output	Best Efficiency
	("*")	(rpm)	(l/min)	(m)	(l/min)	(m)	(kw)	(%)
440	40*40	2900	100	10.9	250	12.3	0.4	<70%
441	40*40	2900	150	15.6	350	19.0	0.75	<70%
552	50*50	2900	200	20.6	450	24.4	1.5	<70%
552H	50*50	2900	100	25.8	300	27.6	1.5	<70%
553	50*50	2900	250	25.8	500	30.6	2.2	<70%
553H	50*50	2900	150	31.8	350	34.2	2.2	<70%
555	50*50	2900	250	30.2	500	35.0	4	<70%
653	65*50	2900	450	17.0	700	20.0	2.2	<70%
655	65*50	2900	500	25.0	800	27.6	4	<70%

## No Obsolete Part Policy

Our whole range of Plastic Mag Drive pumps come with our **No Obsolete Parts** policy guarantee. Meaning if you have your Crest made pump for over 40 years, we will still be able to provide you with parts and an exact replacement to minimise disruption to your production line.



# AMX

## Exploded View

The AMX range is one of the most efficient designs crest offer. Boasting up to 70% efficiency. Reducing operating costs and energy consumption.

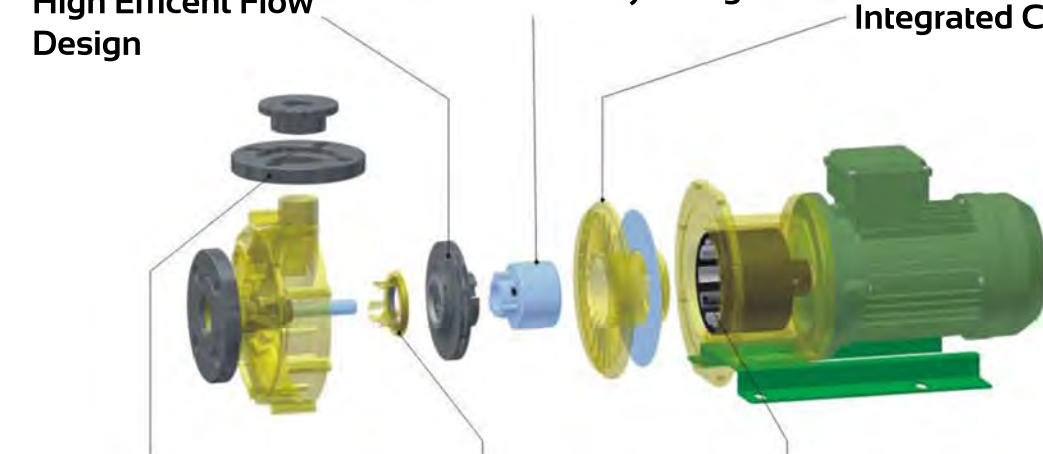
### High Efficient Flow Design

Running-Dry is one of the biggest failures in pumps. The patented Dry-Run technology built in will stop the pump failing if there is a problem on the production line.

### Patented Run Dry Design

The AMX has been fully designed to fit the modern requirements of a highly efficient production line. Constant development has made the AMX one of the most popular Mag-Drive Pumps in the Chemical industry.

### Integrated CAD System



### Flange Assembly

The orientation of the flange can be varied to match corresponding botholes to facilitate existing pipework. The new design also helps to eliminate leakage by flange deformation.

### Patented buffer system

The AMX range boasts a dynamic buffer system which absorbs vibration and shock caused by adverse operating conditions.

### High Performance Magnetic Coupling

We utilize magnetic field analysis programmes to calculate magnetic torque to maximise magnet utilization and ensure sufficient torque margin to prevent de-coupling.

## PREVIOUS CLIENTS





## Design Flexibility

Crest Pumping Services can custom build any pump to your exact specifications, due to our unique in-house manufacturing plant.

Please contact us if there are any particular design requirements you may have.

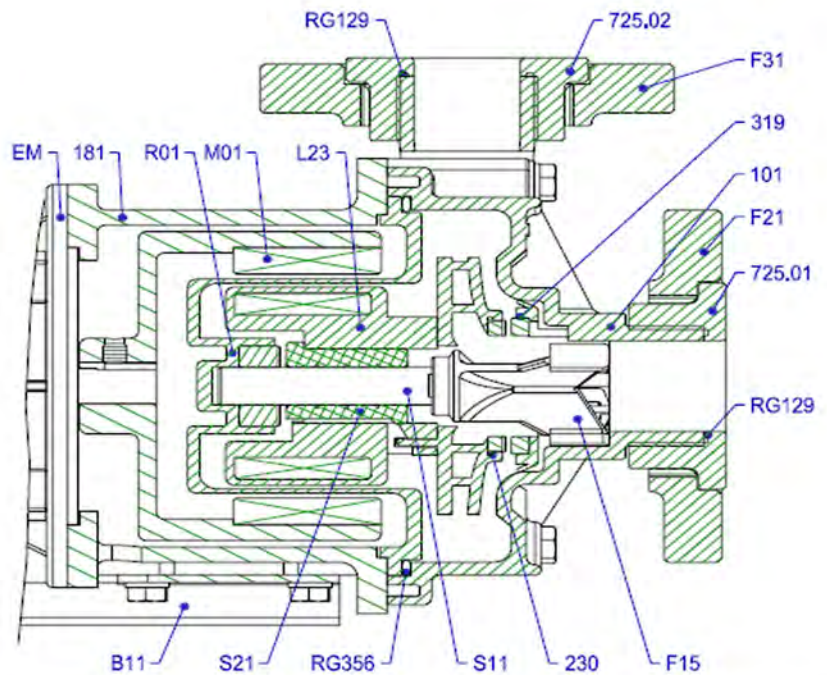
## Ex-Stock Availability

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.**

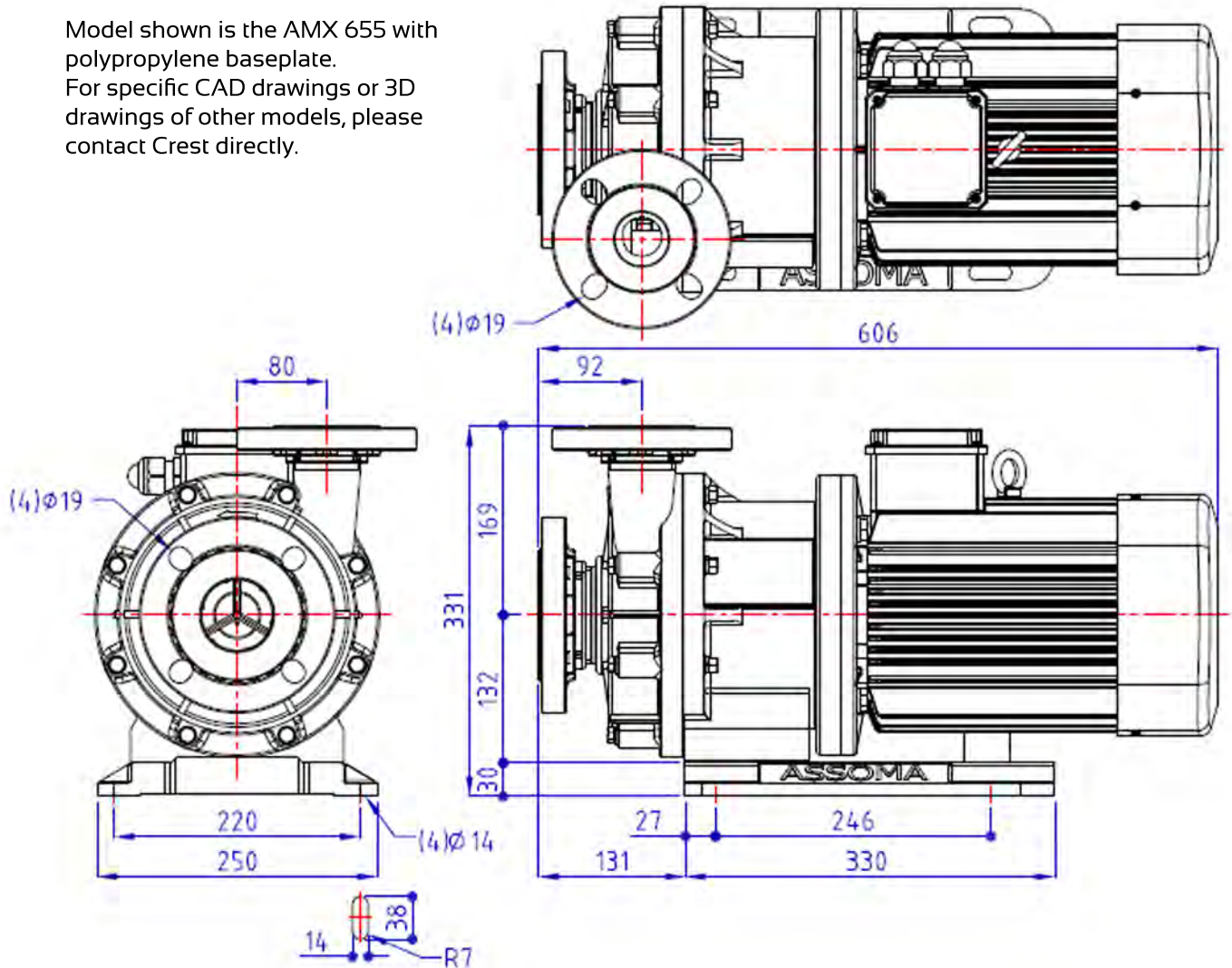


PART	MATL CODE	ACV (ACE)	ARV (ARE)	SSV (SSE)	Q'TY
101	Pump casing	PP+GF / ETFE+CF			1
181	Bracket	FC			1
230	Impeller wear ring assembly	Impeller	PP+GF / ETFE+CF		1
		Front wear ring	CARBON	PTFE with filler	SSiC
319	Thrust ring buffer assembly	Front buffer	ETFE		1
		Front thrust ring	995 CERAMIC	995 CERAMIC	SSiC
725.01	Inlet flange adaptor	PP+GF / ETFE+CF			1
725.02	Outlet flange adaptor	PP+GF / ETFE+CF			1
B11	Base plate*	SUS304			1
EM	Motor	Aluminum Alloy / FC			1
F15	Front shaft support	ETFE+CF			1
F21	Inlet adjustable flange**	PP+GF / ETFE+CF			1
F31	Outlet adjustable flange**	PP+GF / ETFE+CF			1
L23	Magnet capsule	PP / ETFE, Ba-ferrite			1
M01	Drive magnet	Ba-ferrite			1
R01	Rear casing	PP+GF / ETFE+CF			1
	thrust ring assembly	Rear thrust ring	995 CERAMIC	995 CERAMIC	SSiC
RG###	O-ring***	VITON (EPDM)	VITON (EPDM)	VITON (EPDM)	3
S11	Shaft	995 CERAMIC	995 CERAMIC	SSiC	1
S21	Bearing	CARBON	PTFE with filler	SSiC	1



## Dimensions

Model shown is the AMX 655 with polypropylene baseplate.  
For specific CAD drawings or 3D drawings of other models, please contact Crest directly.



- \* The total length & weight of the pump will differ depending on the brand of the motor.
- \* All dimensions are in millimetres.
- \* Assembly tolerances are  $\pm 5$ mm.

## Contact us for a quote!

Crest Pumping Services ensure an extremely quick lead time on all of our AMX Mag Drive pumps. Contact us directly for a quote and talk to our expert engineers about your pumping requirements.



# AMX

## AkzoNobel

Akzo Nobel is a specialist chemicals and paint company with a presence in over 80 countries in the world.

Akzo Nobel submitted their enquiry to Crest for 2 pumps, for two different parts of their on-site operation. The first pump (pictured) would need to be able to handle a specific chemical mix of corrosive acids as part of a fume scrubber application.



The Magnetic drive AMX553s were supplied as the best option for AkzoNobel's operation, as the AMX range feature run dry technology combined with a high efficiency of 70%.

### WHY CREST?

**To make sure your process 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 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 on supplying excellent service at a competitive price.

#### Versatility

Any Crest Pump can be built to your exact specification! Our British and unique in-house manufacturing plant allows us to tailor our pumps to your requirements – No modification too big!

### Previous Clients



United Utilities



*"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 Engineers

*"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