AMEGA GROUP, a key supplier to Municipal & Industrial Sectors, with many years of design and development by our industry experts have resulted in a range of equipments at the forefront of the global industry - used , trusted and recommended by Professional Engineers around the world. To accommodate our continuing growth AMEGA GROUP co-operated with some of the renowned manufacturer to offer a comprehensive list of equipments and products which are with an accumulation of many years experience with industry experts who in partnership with their clients ensuring the optimum products and system performance are developed to meet the clients needs.

All products and manufacturing are tested and inspected to ensure the highest possible standards, consistent quality and the very best performance.

As part of AMEGA GROUP's commitment to client satisfaction, in-depth knowledge of their client's requirements, we are able to react quickly and professionally to clients needs and requirements.













Partnership ACEFLO ENGINEERING www.aceflo.com





Pumps - Motors - Systems

INDUSTRIAL ELECTRICAL MOTOR





AMEGA MOTOR The GAM series three-phase induction motor is in line with IE2/IE3 efficiency standards: IEC 60034-30-1-1 03/2014. The improvement of the efficiency in the design is accordance with the international requirement on the energy saving and consumption reduction of the manufacturing sector.

GAM2 series three-phases induction motor are build mounting dimensions in accordance with the standard: IEC60034. It has good features such as: optimum structure, attractive appearance, low noise level, high efficiency, high protection class and high insulation class. GAM2 series motors can be widely used in various kind of general used machineries such as: fans, pumps, machining tool, compressors, transportation and many more.

Specifications

- Site Conditions: Suitable for most application and operate at ambient temperature from -10°C to + 40°C and altitude up to 1000 meters above sea level.

- Cooling and Ventilation: Totally Enclosed Fan Cooled (TEFC) designed accordance with IC411 of IEC 60034-6. Standard Motors are equipped with radial-flow plastic fans.

- Motor Protection: Can be installed with PTC, PT100. Winding and bearing temperature measurement and other kind of instruments can be installed on request.

- Voltage and Frequency: Standard voltage and frequency are 380V-415V for 50Hz; 440-480V for 60Hz. Motors are designed to operate with variation of ±5% from the rated voltage.

- Terminal Box Location: Standard location of the terminal box is at the top or right side of the motor frame. Special request should be informed to the sales representative.



CENTRIFUGAL PUMPS

Product Introduction

AMEGA PUMPS series single-suction centrifugal pump is a new generation of energy saving, environment friendly centrifugal pump researched and developed by our company, which absorbs advanced technology of similar products and adopts general performance parameters of centrifugal pumps which are available in the market. In addition, according to different operation temperatures and mediums, we developed different configuration, corrosion-resistant chemical pump and oil pump. These pumps enjoy excellent performance, good reliability, long operation life, reasonable construction and nice appearance, which is outstanding in the industry.



- 1. Suction pressure \leq 1.0Mpa, or maximum operation pressure of pump system \leq 1.6Mpa, that is, connecting parts in pump.
- 2. Ambient temperatur <4 0, relative humidit $^{\circ}C < y$ 95%.
- 3. In the conveyed medium, solid particles should be less than 0.1% in unit volume, and granularity <0.2mm.
- 4. Ambient altitude should be no higher than 1000m, if not, you should indicate in order so that we can provide you with more reliable products.

- cold & hot water pump - chemical & processing pump - plup & agriculture pump

Note: If there are tiny particles in the medium or others requirement, please let us know in the order. So we can adopt and select a sutible pump type and cofiguration for your application.



pressure in suction nozzle+pump lift≤1.6Mpa. If operation pressure of pump system is higher than 1.6Mpa, it should be indicated in order, so that we can use more reasonable material for flow and

- seawater pump - firefighting pump - food & beverage pump

FEATURED PRODUCTS



Submersible Electric Pumps



Application

AMEGA Submersible electric pumps for 4" to 12" wells or larger, capable of generating a wide range of flows and heads. These units have a very extensive range of applications for lifting, distribution, and pressurisation in civil and industrial water systems, filling of pressure vessels and tanks, fire-fighting systems and washing of irrigation systems.

Construction Features Of Pumps

Multistage centrifugal type with radial or semi-axial impellers. Pump and motor directly coupled with rigid coupling. Technopolymer impellers with stain-less steel wearing parts, fitted on floating clearance rings made of synthetic low abrasion material, and technopolymer diffusers that impart significant wear resistance to the pump. Pump liner, shaft and coupling, strainer and cable sheath in stainless steel.

Base support and upper head in microcast AISI 304 stainless steel; check valve incorporated in the head. The pumps comply with the European Community Directives.

Construction Features Of Motors

Submersible asynchronous two-pole motor made of AISI 304 stainless steel.

Squirrel cage rotor mounted on self-centring thrust block designed to withstand significant axial loads. Cooling of the bearing assembly and the bushings is provided by water, thereby eliminating the risk of contamination. Canned-type stator installed inside an airtight casing made of stainless steel.

Vertical In-line Multistage Centrifugal Pumps

Application

Pumping of clean, non-aggressive, free of libers in suspension, suitable for application such as:

- Water supply (Domestic / Industrial / Irrigation)
- Water treatment (Domestic / Process)
- Agriculture & Farming

Construction Features Of Pumps

- All hydraulic parts constructed in stainless Stee
- High efficiency stainless steel impeller design
- Raised bottom bearing
- Stainless steel threaded companion flanges with gaskets, nuts, boltd
- & washer included with every pump

Material

All wetted part available in both SS304 or SS316 construction. For other material configuration please contact your nearest agent.



FIRE PUMPS

NFPA 20 Fire Pumps with Controller

AMEGA PUMPS, have deveploe a series of fire applicational single-suction centrifugal pump which comply with NFPA 20 standards which are available to meet the different market demand for fire safety and provide a comprehensive service of Fire Pumps System. AMEGA commitment to service and ensures AMEGA's standing as the perfect partner in the fire protection industry.

Descriptions









AMEGA IRRIGATION SYSTEMS



AMEGA Group water systems, are design by our experience team who will look into your requirment and prodvide the nescessary turkey shid design from filtration systems to pump packages for oil & gas, offshore process skid, process skid, tuff & muncipal pump stations.

Application include: Irrigation for agriculture, landscape, golf course, water treatment, plumbing and sanitary, fire fighting and water transfer.



Optional:

Automatic filtration systems

High performance liquid filtration self-cleaning filter. These filters are design for continuous filtration of water on pressurized systems. It removes debris and particles from water such as seawater, river water and circulating cooling water.

Our filters are design with simple and reliable structure with minimum moving parts (such as clean disc and flushing valve), non-contact cleaning, no particle extrusion out of the filter screen, efficient filtration, low and consistent pressure drop (even < 11kpa) both when clean and dirty, very low working pressure requirement down to 30kPa. Wide flow rate from 30 to 8000 m³/hr through single filter. With filtration degree ranging from 150 to 2000 μ m, no filtration interruption when self-cleaning, easy installation in horizontal or vertical position.

Construction Features

• Critical componets are design with international well know manufactures for easy parts availability and for east replacement to reduce down time.

Pumps are selected based on our own AMEGA Pumps series to meet the application of the systems requirement based on the different water conditions or chemicals needs.
Oue systems comes with customize PLC control to suit each application and design with major brands for easy paring and replacements.

•Our systems also uses our AMEGA (IE2/IE3) electrical motor as the dirver for our pumps. Other requirment can also available to meets the environment requirment, alternately with engine driven for remote location.

Design with single / common skid as per custmer request.Design work pressure from 5 Barg





PARTNERS & ACCESSORIES

Vibration control Isolators- ESA

Vibration isolation is the process of isolating an object, such as a piece of equipment, from the source of vibrations. Vibration is undesirable in many domains, primarily engineered systems and habitable spaces, and methods have been developed to prevent the transfer of vibration to such systems. Vibrations propagate via mechanical waves and certain mechanical linkages conduct vibrations more efficiently than others. Passive vibration isolation makes use of materials and mechanical linkages that absorb and damp these mechanical waves. Active vibration isolation involves sensors and actuators that produce destructive interference that cancels-out incoming vibration.

Features

All Ease Spring Absorbers, ESA Products are designed and manufactured with Butyl, Neoprene and Natural Rubber bearing pads, Air-cushion absorbers to frequencies as low as 6 Hz and steel spring (ASTM 6451C) assemblies in the 0.75 to 4.00 inch (19 to 100mm) deflection range in individual capacities of 5,000 lbs. (2,500 kgs.) Our engineering techniques and having our own research & development facilities are used to develop isolators to keep ground vibration and noise out of buildings close to railroads, subways, heavy traffic or industrial impact of mechanical equipment.

Spring elements are design with spring diameter > 0.8 of operating height and up to 150% of overloading capacity or maximum deflection of up to 150% Spring element are made to comply to SAE9254 wire steel which meets ASTM 6451C Standards. The spring element are design with Horizontal stiffness > 0.8 of vertical stiffness. Which are also design to withstand 100,000 cycle. The spring element are protected by layers of power coating that meets ASTM B117 standards for long life spend.

Other metal parts such as hanger bracket, restraint housing top & bottom cup are made of steel material of standard JIS SS41. The metal components are protected by power coating that meets ASTM B117, hot dip galvanized coatings or by dacromet coating. (Dacromet coating has environmental advantages also like it is composed of nontoxic metals.) For most of our metal components ESA uses dacromet coating due to its durability properties. This coating offers corrosion protection comparable to hot-dip galvanizing. Properly dacrotized parts can typically withstand a 500hour salt-spray test.

Application

Centrifugal pump systems, Refrigeration machines & chillers, Air compressors and Vacuum pumps, Cooling towers, Boiler, Centrifugal fans & blowers, Axial & Propeller fans, Air-conditioning units and Other mechanical moving equipment.











