Horizontal & Vertical

For Variable Speed

MAGNETIC DRIVES

- Ampli-Speed magnetic drive is a magnetic clutch which provides precise, wide-range variable speed control.
- Ratings range from 300 - 1800 RPM and 200 - 2700 HP.
- Simple, air-cooled design requires no auxiliary cooling.
- Bracket type construction makes the unit compact and self-contained.
- No torque pulsations are created within the magnetic drive which can cause shaft fatigue and system failure. Eliminates the need for special couplings.
- Output speed can be controlled with a variety of input signals.
- Variable speed magnetic drives are suitable for pump and fan applications by matching equipment speeds to meet flow demands.
- No harmonic pollution to distort utility system waveforms. Eliminates the need for costly harmonic filters.
- Drive characteristics allow for use of standard motors. No motor oversizing required to compensate for harmonics.
- Enclosures available to meet site requirements.
- EM experience... proven technology with over 50 years of experience and over 1,000 units installed.

ELECTRIC MACHINERY COMPANY
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(612) 378-8000 Fax: (612) 378-8050

Horizontal & Vertical

MAGNETIC DRIVES

EM Ampli-Speed magnetic drives are a time-tested, low-cost solution to your variable speed applications. They can be used with any standard motor, or can be matched with any new or existing installation having a suitable motor.

CONSTRUCTION FEATURES

EM magnetic drives rugged construction includes the following features:

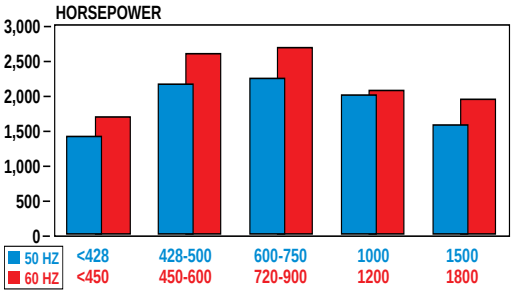
- The salient field poles are dovetailed or bolted to a robust spider to form a sturdy unit which provides years of outstanding service.
- The ring member is made from high quality steel to provide durable, long-lasting service. It has deep grooves to form cooling fins which improve heat dissipation.
- Like all EM machines, magnet member coils are insulated with industry-proven Class F insulation. This system promotes long magnetic drive life by providing superior chemical and moisture resistance, superb mechanical integrity and excellent dielectric properties.
- Heavy frame and brackets support the outboard bearings.
- The control accepts manual adjustment by rheostat or an automatic 4-20 ma signal to provide automatic, precise speed control.

SPECIAL ADVANTAGES

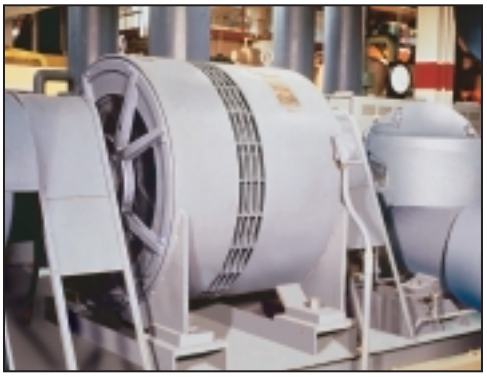
The simple, sturdy design of EM's magnetic drives offer distinct advantages over solid state electronic variable frequency drive controls. These features improve performance and reduce costs.

- Simple design is easily maintained by your personnel.
- No harmonics to create heat in the motor and cause lower efficiency.
- No harmonics to pollute power system or require addition of costly filters.
- Fewer system components means greater reliability.
- No oversizing of motor is required to compensate for harmonics.
- No torque pulsations are created that could cause torsional problems.

ELECTRIC MACHINERY CAPABILITY
MAGNETIC DRIVES



RPM RANGE CAPABILITY



Horizontal drive in pump application.

Vertical drive with EM Induction Motor.

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