

## APPLICATION NOTE

# Manual Speed Control

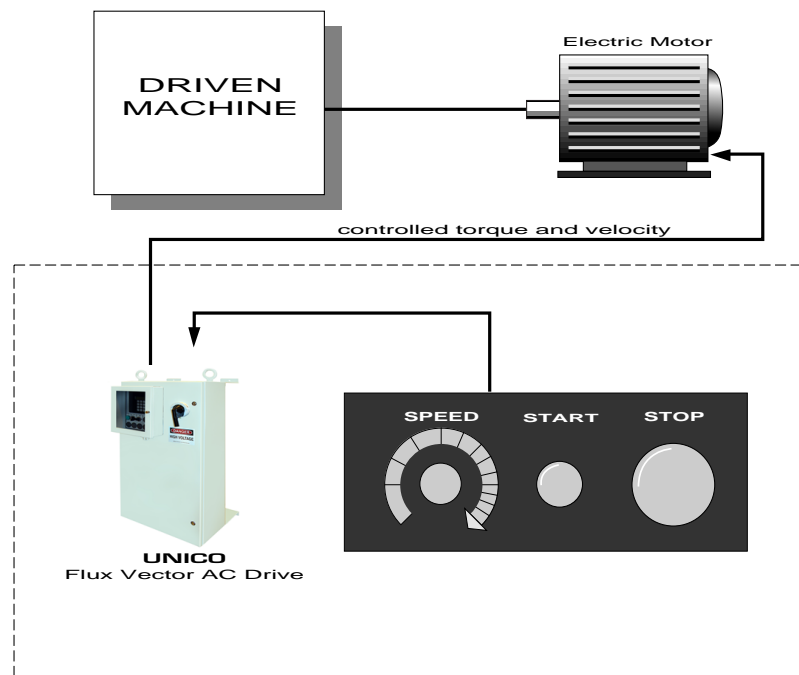
**Overview** The 1100 provides energy-efficient manual speed control of rural and agricultural machinery. The drive allows the user to vary the speed of an electric motor to produce the desired machine output.

### Where Used

- With electric-motor-driven grain dryer fans, grain elevator legs, grain augers, grain and gravel conveyors, oil jack pumps, and workshop machine tools.

### What is Needed

- 1100 Flux Vector AC Drive
- Hand-operated start/stop station with manual variable-speed potentiometer



### Features & Benefits

- Precision control of the speed of an electric-motor-driven machine
- Hand-operated potentiometer allows the user to adjust the speed of the machine to give the exact output desired
- Exact torque control
- Energy savings when not operating at full speed
- Soft start and stop eliminates inrush current and reduces machine stress
- Protects the motor from overcurrent, overvoltage, and undervoltage



1100

Flux Vector  
AC Drive

**Applications** Whenever there is a need to control the speed of an electric motor in your farm or rural application, the UNICO 1100 Flux Vector AC Drive should be your first choice.

## Pumps and Pump Systems

- Submersible pumps
- Centrifugal pumps
- Turbine pumps
- Vertical hollow-shaft pumps
- Municipal water booster stations
- Municipal sewage lift stations
- Farm irrigation systems
- Golf course irrigation systems
- Greenhouse irrigation systems
- City park irrigation systems
- Horticultural irrigation systems
- Tailwater recovery systems
- Agricultural manure pumps
- Dairy vacuum pumps

## Material Handling

- Grain elevator legs
- Grain augers
- Grain and gravel conveyors
- Grain vacuum and pneumatic grain conveyors
- Silo unloaders

## Fans

- Grain dryer fans
- Grain bin ventilation fans
- Confinement building ventilation fans
- HVAC fans

## Compressors

- Natural gas compressors
- Air compressors
- Air conditioning compressors

## Other

- Pond and lake aerators
- Workshop lathes, grinding wheels, and drill presses
- Electric-motor-driven hydraulic systems
- Animal feed extruders

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