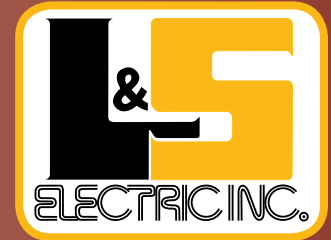


# Yaskawa Variable Frequency Drives



Dedicated People, Quality  
Products, and Above All, Service.

L&S Electric works closely with Yaskawa, providing value-added services to enhance the performance of your rotating equipment. It is important to us to help keep your productivity high and downtime low.

One of the largest North American distributors of Yaskawa variable frequency drives, L&S Electric is also an authorized service center that provides start-up and on-site services.

Yaskawa is the world's largest manufacturer of drives for industrial automation and OEM equipment, covering every automation application need and offering the greatest selection and performance available.



## Variable Frequency Drives (VFD)

One of the main advantages of using a VFD is the energy cost savings associated with speed control. When using belts/sheaves or gearboxes to reduce speed, the motor still runs at full speed; however, a VFD reduces the actual motor speed, which reduces the amps drawn by the motor. This reduces the amount of energy used—and saves you energy costs. By ramping up the motor speed slowly, VFDs also help customers save energy by reducing the in-rush and mechanical issues associated with starting motors across the line.

## Three main reasons to consider using a VFD

- Possible financial rebate incentives from your energy provider.
- Improved efficiency of motor-driven equipment by matching speed to changing load requirements, allowing accurate and continuous process control over a wide range of speeds.
- Yaskawa VFDs provide the benefits of network communications, a user-friendly interface, easy auto-tuning/programming, and ease of installation. Because all Yaskawa VFDs are rigorously tested, you can be assured of built-in quality and reliability.

## Advantages

- A VFD may be used for control of process temperature, pressure, or flow without the use of a separate controller. Suitable sensors and electronics are used to interface the driven equipment with the VFD.
- Lower maintenance costs, as lower operating speeds result in longer life for bearings and motors.
- The motor does not require a starter.
- The ability of a VFD to limit torque to a user-selected level protects driven equipment that cannot tolerate excessive torque.
- Users can utilize multi-motor applications, such as pumps or fans, with one control unit.



www.lselectric.com

### SCHOFIELD

715.359.3155 or 800.283.8332

### DULUTH

218.729.3375 or 800.943.9549

### APPLETON

920.730.0203 or 800.283.5564

### MENOMINEE

906.864.2500 or 800.864.2507

### STURTEVANT

262.886.1875 or 800.367.7676

### MINNEAPOLIS

763.780.3234 or 800.290.9320

### ROTHSCHILD

715.359.4860 or 888.246.1249

### HYDRO SOLUTIONS

715.359.0551 or 877.258.5125