

## Joyce/Dayton Controls are compatible with our screw jacks, actuators and systems.

Joyce/Dayton provides motor controls ranging from simple Motor Starters to Complex positioning systems and Custom controls. Every system that is powered by an electric motor requires a control system. At Joyce, we know that choosing the best option can sometimes be a challenge. That's why our Engineers are available to help you through the process.

### What is an electrical control system?

A combination of electrical components working together to operate a single or multiple motor system. The key is to choose components that are compatible and appropriately sized for your application and a control design that meets your system requirements.

### Which controls are best for your Joyce Jacks or systems?

Joyce Application Engineers work closely with the Electrical Engineer to help you select the right controls for your application.

### Open loop systems

Open loop systems work best for simpler applications which require that only the end of travel positions are defined. Generally, appropriately sized Motor starter boxes are needed for individual screw jacks, ComDRIVE jacks, or multiple jack systems that are shafted together.



Standard Actuator boxes can be sized for either AC or DC powered Multipurpose Actuators.

With open Loop systems, jacks need to be equipped with external limit switches which are tied into Motor Starters to limit extended travel and retracted travel. Multipurpose Actuators, which include internal limit switches, work much the same way.

### Closed loop positioning systems



Applications that require the exact position of the jack to be known throughout the travel cycle always require more sophisticated controls. In these systems encoders or potentiometers attached to the jack input shafts provide a measurable feedback signal to the controls which indicates the position of the jack throughout its travel cycle. In these systems a touch screen interface is used to dynamically display the jack's position.

### Choose Joyce Controls for your Joyce Jacks

- Simplify project management tasks
- Ensure that your mechanical and electrical systems are compatible
- Coordinate delivery with a single contact
- Experience great customer service and on time delivery.

***We offer complete systems. Discuss your requirements with one of our experienced Application Engineers.***