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Power Transmission Solutions

Controls FAQ's

What controls do I need to drive a motor driven screw jack?

There are many motor and drive options for screw jacks. For simple applications, we will provide a 3-phase motor and also supply a direct online push button control cabinet or hand held unit with everything you need to get started.

Can I change the lift speed of the screw jack?

There are many ways to change the lift speed. Either by the screw jack ratio or spindle pitch, changing from a 4-pole motor to a lower 6- or even 8-pole motor. For a variable speed control, we can provide an inverter drive. This also allows programmable soft start and stop curves.

Do I need a brake motor?

Standard worm wheel screw jacks ratios and spindles are usually self-locking once stopped but for personnel lifting applications and for safe areas we would supply a brake motor. This is only available for 3-phase 230V or 400V motors. The brake usually is 205V d.c. A rectifier is supplied with the motor to accept a 230V a.c. supply input. 24V d.c., manual brake release and hand wheel recovery systems are options for safety and back up if power failure occurs.

Can I have limit switches and interlocks with screw jacks?

Yes, the translating screw jacks have an option of limit switches built in for end of travel, and travelling nut versions can utilize external limit switches. If you need interlocks for safety gates or safe buttons then we can incorporate this in your bespoke controls package. Worm wheel or motor encoders can provide positional feedback closed loop systems.

Can I run a screw jack on a single phase supply?

Yes, but you are limited in motor power output. Single phase motors are not fitted with brakes so this would not be suitable for equipment near personnel.

Do you supply instructions with your controls and what happens if I need help setting up?

All our control systems include manuals and wiring diagrams. If you need a controls engineer to install or assist with set up or programming, this can be arranged at a daily rate (POA).