

Tritex II Operation

The Tritex II Series actuators can operate in one of five different motion producing modes. These modes solve an endless variety of applications in industrial automation, medical equipment, fastening and joining, blow molding, injection molding, testing, food processing, and more.

Programmed functions for the application's motion requirements for linear and rotary motion control applications, product configurations and motion parameters are stored in the Tritex non-volatile memory. An RS/485 series interface allows control, programming and monitoring of all aspects of the motor or actuator as it performs your application.

Operating Modes

1. *Move To A Position (Or Switch).*
The Tritex II Series actuators allow you to execute your programmed positions or distances. You may also use a limit switch or other input device as the end condition of a move. This combination of index flexibility provides a simple solution for point-to-point indexing.
2. *Move to a Preset Force Or Torque.*
The Tritex II Series allows you to terminate your move upon the achievement of a programmed torque or force. This is an ideal mode for pressing and clamping applications.
3. *Position Proportional To An Analog Signal.*
Ideal for process control solutions, the Tritex II Series provides the functionality to position by following an analog input

signal. This allows the Tritex II Series to be a drop-in replacement for inconvenient and inefficient hydraulic and pneumatic solutions already positioning to analog signals.

4. *Velocity Proportional to An Analog Signal.*
Tritex II actuators offer you the capability to control velocity with an analog signal. This is particularly useful with Tritex II rotary actuators offering precise control of the speed of any process or operation.
5. *Force/Torque Proportional to Analog Signal.*
Perfect for pressing and torquing applications, you can control torque from an analog input while in torque mode.

Selectable Input Functions

Enable • Initiate Move (0-15) • Dedicated Position • Jog+ • Jog- select move (0-15) • Jog Fast • Home • Extend Switch • Retract Switch • Home Switch • Teach Enable • Teach Move (0-15) • Stop • Hold • Alternate Mode; allows you to switch between two operating modes.

Selectable Output Functions

Enabled • Homed • Ready (Enabled and Homed) • Fault • Warning • Fault or Warning Active • Move (0-15) in Progress • Homing • Jogging • Jogging+ • Jogging- • Motion • In Position • At Home Position • At Move (0-15) • Position • Stopped • Holding • In Current Limit • In Current Fold back • Above Rated Current • Home

Tritex II Option Boards

Option boards offer additional functionality to the base Tritex II actuators

- Terminal board for customer I/O
- Terminal board for customer I/O plus encoder output (requires encoder feedback (IE option))
- Isolated 4-20mA analog input and output
- Customer specific

Communication buses

- Ethernet IP
- Modbus TCP
- PROFINET IO
- CANopen (future)
- HART (future)

Connectivity

- Internal terminals accessible through removable cover (available all models Tritex II AC and 75 or 90 mm only Tritex II DC)
- Threaded ports for cable glands (available all models Tritex II AC and 75 or 90 mm only Tritex II DC)
- Optional connectors
 - M23 Power
 - M16 I/O
- M8 connector for RS485
- Custom connection options