

# Kinetix LDAT Integrated Linear Thrusters



Kinetix LDAT integrated linear thrusters provide machine builders with high-speed, load-bearing linear motion out-of-the-box. The Kinetix LDAT linear thruster is a reliable, high-speed linear actuator with an integrated linear guide that is capable of pushing, pulling, or carrying a load. The linear thruster combines high velocity, high levels of acceleration, and peak thrust forces up to 5469 N (1229 lb) to help maximize performance. Ideal applications are those that currently use a custom-designed belt actuator or linkage device that converts rotary motion into linear, including cartoners, stackers, case packers, case and tray formers, in-out feeds, diverters, ejectors, drop gates, and horizontal conveyors.

## Kinetix LDAT Linear Thruster Features

- Increased reliability due to direct-drive technology with single linear guide, single wear item, caged-ball linear bearings, and elimination of wear items associated with rotary to linear motion conversion
- Integrated linear bearing provides the ability to carry a load without having to mount and align external bearings
- Multiple mounting surfaces and methods for ease of mounting into your machine
- Couples directly to the item that needs to be moved
- Available with strip cover option for added bearing protection in harsh environments
- High velocities, up to 5 m/s (16 ft/s), and acceleration, 49 m/s<sup>2</sup> (160 ft/s<sup>2</sup>) standard
- Peak forces ranging from 168...5469 N (38...1229 lb)
- Stroke lengths from 100...900 mm (3.9...35.4 in.)
- Motion Analyzer software, version 6.00 or later, for quick and easy sizing

## Motor Connector/Cable Compatibility

Kinetix LDAT linear thrusters are equipped with SpeedTec DIN connectors. However, the incremental encoder option (-xBx) requires threaded DIN (M4) feedback cables in non-flex applications. This is due to the number of conductors required for incremental encoder connections.

