



Photo courtesy of Hortech Horticulture Technology

Product

K2x & M-Track Linear Actuators

Application

Baby Leaf Greenhouse Harvesters

Highlights

K2x Actuators

- Up to 2,800 lbs. (1270kg) load capacity
- Patented screw end bearing guide
- Heavy-duty, sealed double ball bearing motor
- Nitrotec® treated end fittings

M-Track Actuators

- Acme screw drive
- Compact design
- Aluminum zinc alloy housing
- Completely self-contained and sealed

Hortech Horticulture Technology, a leading manufacturer of horticulture machinery, needed reliable linear actuators to replace hydraulic pistons on their new line of baby leaf harvesters. The unique, eco-friendly machines utilize emission-free electric drives designed for harvesting spinach, leaf beet, and parsley which is mainly grown inside greenhouses.

Since planting beds are not perfectly flat, it is necessary for the harvester operator to adjust, (within a range of 5 mm) the position of the conveyor belt and blades for cutting the leaf. Two Warner Linear K2x ball screw actuators, featuring 16" strokes, 1,199 lbs. (544 Kg) load capacity and electronic controls, are used to adjust the position of the conveyor belt and cutting blades.

Rugged-duty K2x models have integral O-ring seals, a heavy wall rod and extension tube, a bi-directional holding brake and Nitrotec® treated end fittings for superior strength and corrosion resistance. Models also feature heavy-duty, sealed double ball bearing motors and a mechanical torque limiter for end of stroke and overload protection.

A Warner M-Track acme screw actuator with a 50 lb. (22Kg) load capacity, a 2" stroke, and a limit switch is utilized to adjust the harvester's speed by moving a lever on the gearbox which changes the gear. An additional M-Track actuator with a 165 lb. (75Kg) load capacity, 6" stroke and a limit switch is used to adjust the position of the cutting heads. M-Track models feature an aluminum zinc alloy housing which resists corrosion and provides protection from dirt, dust and humidity.

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