



Compact design enables vertical transport of totes or boxes using quiet, reliable, and efficient belt actuator technology.

Key Functions

- Optimized cycle times to meet throughput requirements
- Presents carriers that are correctly oriented and aligned
- Multiple tray transfer capabilities.
- Customized footprint
- Multiple user configurable heights.
- 24 volt DC control voltage
- Optional user configured safety features i.e. proximity sensors, photoelectric sensor or limit switches
- Perforated steel or plastic window designs available
- Servo or VFD options available

Specifications

Supply Power	24Vdc @5amp max.
Rotational Speed	0 to 20 rpm
Throughput	15 items/min
Protection	Thermal and electric overload
Linear Speed	Up to 180 ft/min
Physical Construction	Mild steel, powder coated
Weight	100 lbs
BF (width) dimensions	available in 16", 18" and 20"
Controls	Programmable Logic Controller
Network Type	Customer Specific

General Requirements

Overall Electrical Requirements	208 VAC 3-phase + neutral, 20A
Internally Supplied Control Requirement	24 VDC, max 5A
Operational Temperature range	10° C to 35° C (14° F to 95° F)
Maximum Relative Humidity	90% @ 50° C (122° F)
Motor Specifications	IP 54, CE listed

Mechanical Specifications

Configuration Types	C, Z, or 90 degree cantilevered configuration
Overall Dimensions	Scaled to customer requirement
Overall weight of product	Scaled to customer requirement
Typical speed of vertical travel	1016mm/s (40 inches/s)
Typical Cycle Time	10 cycles per minute
Product dimensions capability	Scaled to customer requirement
Noise level	62 dB
Actuator belt dimensions	25mm (0.98 inches) wide
Actuator belt composition	Polyurethane with internal steel reinforcement cords
Actuator belt tensile strength	794 Kg (1750 Lbsf)
Actuator belt life	3 to 5 million cycles

**based on flexural fatigue of the individual steel cords*



Other Specifications

Duty Cycle	Up to 24 hours per day, seven (7) days per week, and 52 weeks per year
Manual Operation	Manual operation available from the control panel or remote (customer specified)
Overall Dimensions	the overall height, width and depth dimensions of the VRC unit shall be designed to customer specifications
Protection	VRC is equipped with full overload circuit protection and optional user configured safety features (i.e. photo eyes, photo electric sensor or bumper switches)



United Sortation Solutions
55 New Plant Court
Owings Mills, MD 21117
410.363.6345
info@unitedsortation.com
www.unitedsortation.com