ALA
Automatic Tray Loader

Technical Specifications

- Three-axle gantry robot, servo-powered.
- Sorting & loading in up to 20 different directions.
- Capacity up to 1200 trays/h.
- Gripping device can be adapted for different tray types.
- Gripping device can handle whole layers or parts thereof.
- Telescopic Z-axle as option.
- Handles up to 100 kg/tray layer.
- Aluminum profiles of own design.
- Robust steel support.
- Compact design requiring limited floor space.
- Control system based on standard PLC solution.
- Built-in protection on three sides as well as between sections.
  Inward and outward transportation of trolleys/pallets is monitored by an area scanner assuring maximum security.
- Built-in conveyor system.

ALA
Most postal operators have efficient and highly automated letter sorting machines but very often the final sorting as well as loading trays on trolleys is still done completely manually - a quite heavy work for the operators.

Hanter’s Automatic Tray Loader, ALA, is a sorting and loading system for loading trays on trolleys making it possible to eliminate heavy and intensive work tasks.

The system is designed using a servo powered 3-axle gantry robot as main unit. A built-in conveying system transports the trays to the robot pick-up positions. The ALA can be integrated with the customers’ existing conveying systems supplying trays from, for example, letter sorting machines.

ALA is a cost-efficient system reducing manual work tasks. Furthermore the ALA improves work environment and ergonomics by elimination heavy, manual, intensive and often dull work tasks.
Automatic Tray Loader, ALA

- Tray identification position
- 20 robot pick-up positions
- 3-axle gantry robot unit
- Conveyor system with loop
- Optional tray unloading position
- External conveyor system, for instance from letter sorting machines.

Layout example