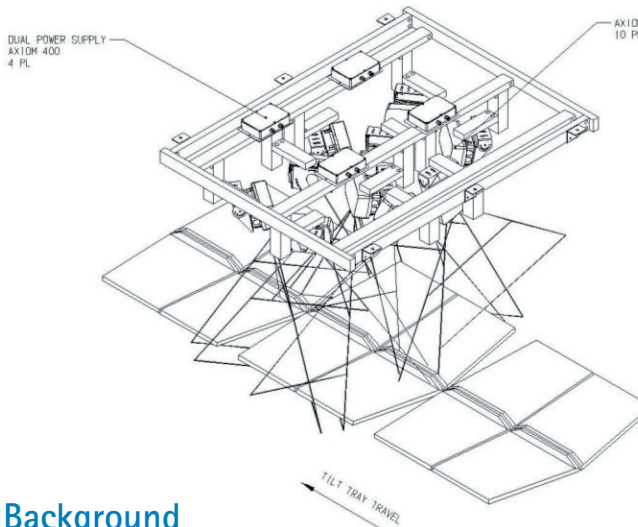


ACCU-SORT®

AXIOM™ Offers Superior Read Rates for Challenging Tilt Tray Application



Continuous scanning over 4 read zones—Allowed for constant focus over large DOF even on varied and unusually shaped packages.

Flexible Connectivity—Enabled easy, seamless integration. A dual 5-headed AXIOM tunnel included complete communications interface without the need for additional peripherals.

“We are trying to read a variety of bar codes under circumstances that make it very difficult. Our packages are of varied sizes and shapes and some bar codes are under plastic. The AXIOM has performed well beyond our read rate expectations.”

—Industry Customer

For more information about auto-ID and material handling solutions from Accu-Sort Systems, contact us at:

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Background

A well known tilt tray manufacturer had a challenging application: They had to read and sort unusually shaped packages for a large direct mail and internet catalog distributor. The transport had dual tilt trays, with a different product on each tray. Other bar code reading solutions were tested, both camera and laser-based, but the AXIOM was the hands-down winner.

Challenges

The application presented many challenges. First, there were several different types of bar codes that needed to be decoded on irregularly shaped packages. Second, bar code size was as narrow as 7 mils, with a 0.3 inch bar height. Third, transport speed was about 360 feet/minute with a large 20 inch DOF - a difficult combination especially when coupled with the small code size. Finally, the dual tray transport system ruled out any type of camera-based solution because of dynamic focusing restrictions.

Accu-Sort Solution

A dual five-headed AXIOM 4L scanning system was the optimal application solution. The AXIOM's were mounted in a configuration that provided the needed coverage to read the extremely small aspect ratio bar codes at the given transport speed. An Accu-Sort Quad-X and AV4000 camera system was originally tested for the application, but the AXIOM solution provided the highest read rate.

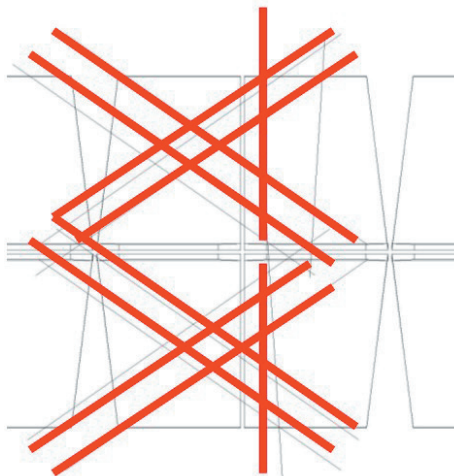


Image Captions: (TOP LEFT) AXIOM Bar Code Scanner. (TOP RIGHT) The AXIOM tunnel configuration uses two five-head AXIOM 4L systems to assure complete coverage of the tilt trays. (RIGHT) Illustration of scanning pattern created by the two systems.

