Modular Robotics Series

Versatile Robotic Cells for top-loading of secondary containers such as cases, crates and displayable cartons

Designed to offer you the most flexibility and versatility.

- Modular: Choose from a wide variety of collation styles and end-of-arm tooling.
- Flexibility: Modular design allows you future reconfiguration for totally different tasks.
- Programmable: Robotic motion easily controlled through operator interface.

Your Worldwide Source for Packaging Automation
We built our reputation with systems that load bags, pouches and other flexible packages into cases and other secondary containers. Needless to say, if we can handle those tough packages, we can also handle rigid containers.

Our robotic solutions give you enormous flexibility and adaptability for the future.

BluePrint Automation offers a large choice of standard and customized product collation modules, as well as a wide variety of end-of-arm tooling. Whether it is a stand-up pouch you want to pack, or an odd shaped cup, a carton or a pillow bag, we can provide you with a cost effective solution based on over 20 years of experience.

The robot is fully servo driven and controlled by a state-of-the-art coordinated motion control package. Smooth parabolic paths eliminate sudden acceleration and vibration.

It is a perfect example of simplified mechanical design through application of advanced computer controls.

Available with Allen Bradley ControlLogix™

Speed
Up 120 packages per minute with single indexing conveyor. Up to 400 packages per minute with SMART TRAK™ collation.

Construction
Heavy Duty 3”x5” tubular frame construction. Painted carbon steel or stainless.

Controls
Allen Bradley or to customer specification.

Safety
Fully guarded and interlocked.

Power
To customer specifications.
The SMART-TRAK™
High speed pocketed collation system for integration with BluePrint Automation’s Robotic Pick & Place Case Packers

Positive Product Placement with Changeover in Under a Minute!

- More flexibility
- Faster changeover
- Less maintenance
The SMART-TRAK™

Individual Packages like pouches and wrapped products are collated into single holding bins at speeds of up to 400 products per minute. The SMART-TRAK™ system uses two groups of holding bins with each group driven by its own servo driven timing belt. While one group is indexing to collate new packages into each of its holding bins, the other group has moved to, and stopped in the pick-up position, allowing for the necessary dwell time. After the pick-up, that group moves around the track to continue indexing new packages, while the other group now has moved to the pick-up position.

Positive product placement with SMART-TRAK™? That’s a fact! With pocketed collation, variables that effect nonpocketed collation systems are eliminated. Nonpocketed collation systems rely on friction. Variables such as product build-up and dust can adversely impact friction co-efficients, making it impossible to predict accurate product placement everytime. SMART-TRAK™ eliminates these variables!

Fast changeover? You bet! BluePrint Automation’s second generation SMART-TRAK™ can be changed over in less than one minute! Each group of pockets is in fact a short section of shuttle belt. The shuttle belt is simply “clicked out” or “clicked in” to the drive system. When running a new product with a different pitch, simply “click in” the new set of shuttle belts! No more long sets of timing belts to struggle with on other vertical racetrack systems!

Speed
Up to 400 indexes per minute (actual speeds vary depending on type & size of package)

Drive
Servo driven collation system with either stand-alone motion control system or Allen-Bradley Control Logix

Each SMART-TRAK™ is customized to your specific package type, size range, and speed requirements.