BISHOP WISECARVER

SMOOTH MOTION | DEBRIS RESISTANCE | QUICK CHANGEOVER | LONG LIFE & LOW MAINTENANCE

BALCONY STYLE CASE PACKING

Packaging — Case Packing

Case Packing Machinery for Multiple Box Sizes

THE CHALLENGE:

SMOOTH ADJUSTABILITY IN CASE PACKING MACHINERY

The mechanical designer for a high speed automated case packaging machine needed to develop a mechanism for adjusting case size. This would allow quick machine changeover to accomodate several standard dimension cardboard boxes for processing.

The balcony-style case packing machine is designed to pack bundles of finished products into an outer cardboard box. A long stack of folded boxes is loaded onto the box infeed. In the balcony-style machine, one box is selected from the stack and forced through the floor of the balcony platform to fold the box flaps. Bundles of products are added to the folded case in downstream operations.

CRITICAL FACTORS:

ENHANCE EASE OF CHANGEOVER AND RELIABILITY

The machine needed adjustable elements to accomodate several standard cardboard box sizes. This system must be designed so that machine operators can quickly make the manual adjustments between production runs.

The adjustable elements needed to operate smoothly and reliabily in the presence of cardboard dust and contamination.

- Smooth Motion
- Debris Resistance
- Quick Changeover
- Long Life & Low Maintenance

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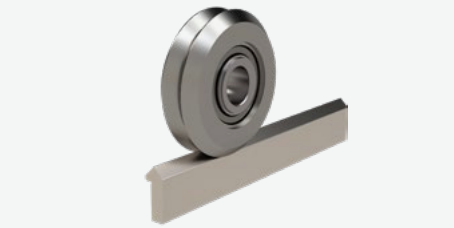

DualVee® Wheel and Track

Six sizes of wheels to fit various machine footprints and load requirements

Cutaway of DualVee wheel with studded option

THE BISHOP-WISECARVER ADVANTAGE

START WITH SMOOTH, SELF-CLEANING GUIDE WHEEL TECHNOLOGY.

When it comes to debris-filled environments, Bishop-Wisecarver has systems and products to keep operations running smoothly and reliably. Coming in a diverse array of sizes, materials and complete with flexible mounting options, you are free to customize your system to your exact specifications and needs.

- Self-cleaning DualVee® guide wheels and track wipe away cardboard dust and other debris
- Guide wheels are lubricated for life and designed to seal and shield internal rolling elements from external contaminants
- Highly durable motion components reduce maintenance costs
- DualVee Motion Technology® provides smooth motion, despite any buildup of debris

SOLUTION:

AN EASY-TO-MAINTAIN LINEAR GUIDE SYSTEM

The mechanical designer developed an adjustable width cardboard box infeed station for the balcony-style case packer using DualVee® linear guide wheels and track. One side of the box infeed stack moves on the linear guides and is positioned to a measuring tape location. Manual clamp handles are also included to lock the location in place once the operator is satisfied with the box width setting.

RESULTS:

PROBLEM SOLVED.

The DualVee® wheels and track allow quick adjustability of the system during machine changeover. The vee groove guide wheels operate smoothly in the presence of cardboard dust and debris because of a constant sweeping action that occurs as the wheel rolls. The resulting motion system is both smooth and reliable.

SIGNATURE EXPERIENCE

We take pride in being an exceptional service provider and a trusted business partner. Our goal is to give you more than innovative products- we want to work with you to find the best motion product for your exact application needs.

CONTACT US TO DISCUSS YOUR SPECIFIC GUIDED MOTION NEEDS

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