



PACKAGING

ORBITAL STRETCH WRAPPER

Wrapping system relies on vee guide technology for durable, smooth, and space-efficient rotary motion.



LONG LIFE



ROTARY

SMOOTH
MOTION

COMPACT

CannTec LLC (Old Saybrook, CT) designs and builds custom orbital wrapping machines used in the building supply, hardware, medical and manufacturing industries. CannTec equipment is known in the industry for its reliability and longevity.

CannTec's OSW Orbital Stretch Wrappers are designed to easily integrate into conveyor lines and automatically wrap products or packages in film. These machines have several popular options, including fully driven conveyors and additional film cut, handling, and labeling operations.

At the core of each OSW system is the rotary motion system that guides the roll of industrial stretch wrap around the products passing through the conveyor tunnel.

CHALLENGE

SMOOTH-RUNNING ROTARY MOTION FOR INCREASED SYSTEM LIFE

The OEM needed a rotary guided motion system that meets each of the application requirements.

Reliability and low-maintenance are critical requirements for end users, and reinforces CannTec's reputation for long-lasting machines.

The rotary guide solution needed a large open center to accommodate a variety of tunnel

diameters (specifically, the 18", 24" and 40" sizes). However, it also needed a low profile to maximize the space for other elements.

Furthermore, the system needed to provide variable rotational speeds up to 125 RPM. Smooth and quiet operation is preferred.



PRT2 guide wheels run on the matching vee surfaces of the ring or track. The guide wheels can be mounted internally or externally to the ring.



PRT2 rings have several options for driving rotary motion. They can be undriven, rack driven, or driven by timing belts.

SOLUTION

DURABLE VEE GUIDE TECHNOLOGY

HepcoMotion® Precision Ring and Track (PRT2) is used to guide the roll of film around the tunnel. The PRT2 system offered by Bishop-Wisecarver uses four vee guide wheels as stationary bearings for a rotating vee profile ring. Two of the bearings are mounted with concentric studs, while the other two are mounted with adjustable eccentric studs. All of the guide wheels are double row bearings for high load capacity and debris tolerance. Lubrication blocks are automatically fed with mineral oil, helping to apply a thin coating of oil on the track which extends the system life.

CHALLENGE SOLVED

RELIABLY SMOOTH ROTARY MOTION

Bishop-Wisecarver's motion solutions provide reliability and durability to lower the Total Cost of Ownership for end users and equipment manufacturers. PRT2 bearings are internally lubricated for life, adjustable, and debris tolerant. As a result, the system requires little maintenance.

The large open center of PRT2 ring systems provides ample space for wrapping. In fact, the PRT2 and Heavy Duty Ring and Track product lines offered by Bishop-Wisecarver include rings with open centers upwards of 56". A variety of rings are used, depending on the size of the conveyor tunnel.

The matching vee angled profiles of the bearing and ring enable smooth-running rotary motion at the required speeds

QUANTIFIABLE RESULTS

LONG-LASTING ORBITAL STRETCH WRAPPERS

CannTec's systems continue to be the longest lasting wrapping machines on the market. In fact, the oldest machine (sold in 2002) is still running.

PRT2 is available from Bishop-Wisecarver, the exclusive North American distributor of HepcoMotion products since 1984.

