



Servo Drive Cup Feed and Can Conveyor

For Stolle Ragsdale and Standun Bodymakers
September 2009

Stolle CMD has developed two servo-driven components for Ragsdale and Standun Bodymakers that offer numerous benefits over the previous mechanically-driven components.

The **Servo Drive Cup Feed** is a direct-drive, independent servo motor. In Standun bodymakers, it eliminates a chain drive with its associated backlash. In Ragsdale bodymakers, it eliminates the positive cupfeed drive belt and its associated tensioning process. In both bodymakers, an overload clutch and disk brake are also eliminated. The servo drive cup feed provides positive cup feed and improved tracking that ensures proper cup placement, which virtually eliminates cup misfeeds and improves feeding of out-of-round cups.

The motor drives the cup infeed wheel with a reliable servo gearhead, and a resolver and motion controller on the feed mechanism provide positive feedback for precise timing. With a minimal number of moving parts, the servo drive cup feed requires minimal maintenance. As an added benefit, the unit is contained in a sound-dampening enclosure.

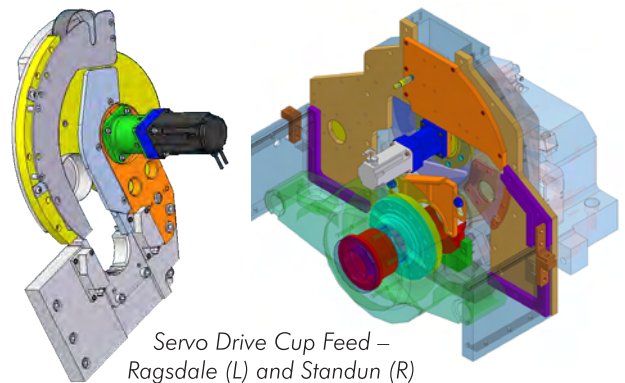
The **Servo Drive Can Conveyor** also eliminates many mechanical drive components and their associated maintenance. In conjunction with the servo drive cup-feed, these include a gearbox, two couplings and bearings, a belt drive and a chain drive together with the associated guarding.

Both of these improvements use specially-developed heavy duty brushless DC servo drive motors. Working closely with our servo motor supplier, Stolle has helped redesign the motors for longer life in the harsh environment of a bodymaker. The main areas we addressed were different manufacturing methods and materials that keep coolant out of the motor windings to prevent motor failure.

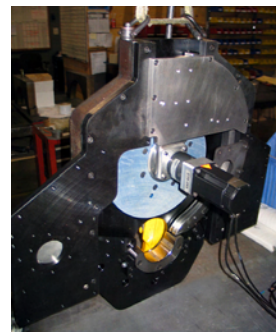
The servo drive cup feed and can conveyor are capable of feeding cans at 400 CPM or higher, depending on the can diameter. Set up and timing adjustments for both components are easily accomplished through the bodymaker control system.



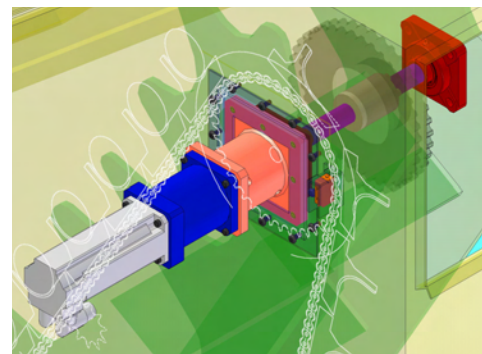
The servo cup feed and can conveyor are available as options on all new Ragsdale and Standun B5 & B6 bodymaker models, and are available as retrofits for all existing models. Please contact Stolle CMD at 303-708-9044 for more information on these components.



Servo Drive Cup Feed – Ragsdale (L) and Standun (R)



Front and rear views of the Standun Servo Drive Cup Feed



Standun Servo Drive Can Conveyor



Stolle Machinery Company - Can Machinery Division
6949 South Potomac Street, Centennial, CO 80112
Phone: 303-708-9044 Fax: 303-708-9045
www.stollemachinery.com

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