

Ramsey Products

IMPROVING TAKE OUT ARM PERFORMANCE

RAMSEY PRODUCTS

Ramsey Products has specialized in silent chain drives for more than 85 years. The company offers an extensive range of silent chain products for use in glass transport and, in this article, explains to us how it has improved the performance of its take out arms, along with the benefits to be obtained from their use.



Ramsey Silent Chain powered take out arms run longer, needing less maintenance than older belt driven designs

For more than 85 years Ramsey Products has focused on helping clients with the selection and application of Silent Chain drives, manufacturing and supporting the world's widest range of industrial Silent Chain products.

Because Ramsey specializes in Silent Chain (Inverted Tooth) drives, it can provide the widest range of standard chains and sprockets, as well as custom designed chains and sprockets to respond to clients' exact requirements.

IMPROVING TAKE OUT ARM PERFORMANCE

IS machines rely on take out arms to efficiently and accurately transfer hollow glassware from the mould to the dead plate. When functioning properly, the take out arm is synchronized with blow moulds and glassware is uniformly spaced on the conveyor. As production rates and line speeds increase, the proper functioning of the take out arm becomes especially critical. A common problem with belt driven take out arms is the loss of syn-



Retrofit kits convert older, belt driven take out arms to high performance RPV chain drives



In addition to being field tested and field proven, all Ramsey take out arms undergo dynamic factory testing before shipment

chronization due to belt slip or failure. This results in irregular product spacing, increased breakage, decreased throughput, and increased maintenance downtime.

Working jointly with glass industry engineers, Ramsey Products has developed a new solution that greatly extends the life of take out arm drives. Utilizing high performance RPV silent chain in place of heat sensitive drive belts, Ramsey's take out arm drives can provide more than 10 times the life of a typical belt driven arm. And because Ramsey drives are made from hardened steel components, stretch is eliminated and precision registration is

maintained throughout the life of a drive. The bottom line is a solution that provides years of trouble free service compared to only weeks or months. Downtime and maintenance costs are reduced, while production output is increased.

Ramsey take out arms ... take out downtime

Ramsey take out arm drives are available in component kits for retrofitting in existing take out arm housings, or as a complete new assembly. Both kits and complete take out arms utilize high performance RPV silent chain and sprockets to greatly extend drive life and dramatically reduce main-

tenance costs. Field tests have shown that Ramsey take out arm drive life is often more than 10 times that provided by drives using heat sensitive belts. Moreover, with Ramsey take out arm drives, the need for frequent adjustment is virtually eliminated. Drives can be equipped with optional shear pin sprockets to provide overload protection, and all Ramsey take out arms are dynamically tested prior to shipment.

Features:

- fully compatible with most IS machines;
- greatly improved drive life;
- reduced downtime and maintenance;
- complete drive or retrofit kits available;
- suitable for 4.25" to 9.25" bottle spacing;
- built-in overload protection option;
- fully tested before shipment.

Take out arm retrofit kits save money

Ramsey retrofit kits allow take out arms from other manufacturers to be converted to RPV silent chain drives. Kits provide all the internal components necessary to convert an existing take out arm to a Ramsey chain driven take arm. The kit is installed in an existing take out arm housing, so there is no need to buy a new housing. This provides an economical alternative for customers who wish to improve the performance of existing take out arms, rather than purchasing a complete new drive unit. Kits are available to convert take out arms from most major manufacturers.

Complete take out arms fit most IS machines

Ramsey take out arm systems are complete drive solutions. They are designed to completely replace alternative take out arms, and are shipped ready for use in their own drive housing. Because they are designed specifically for use with

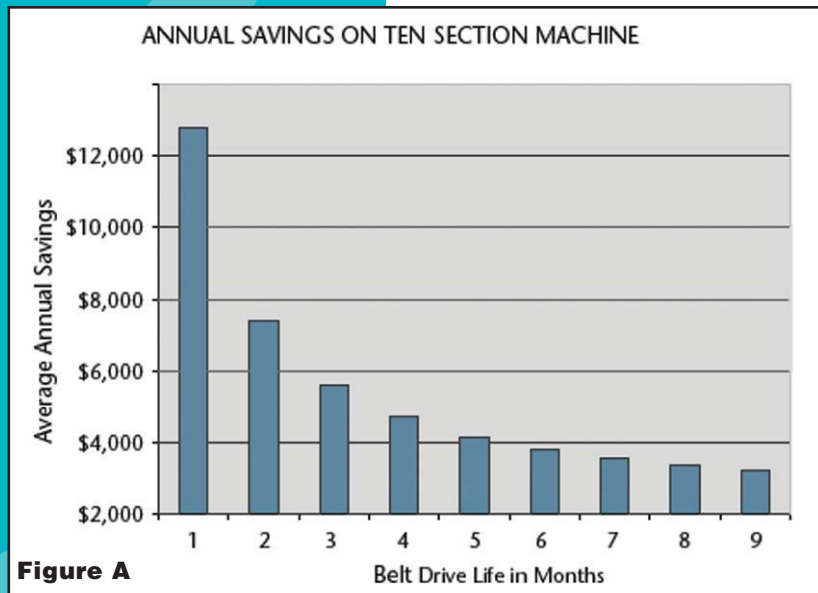


Figure A

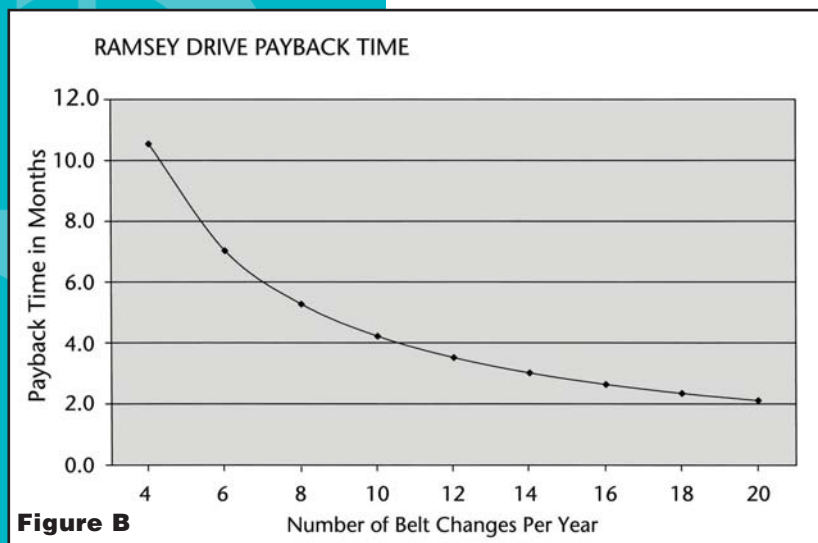
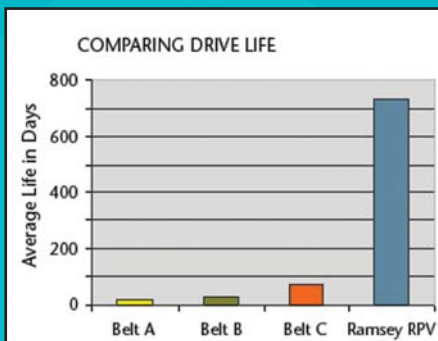


Figure B

Fig. A - Results based on belt and chain replacement costs only

Fig. B - Ramsey take out arms provide years of trouble free service, compared to only weeks or months for typical belt drives



Results based on retrofitted 6 1/4" Ramsey take out arm kit in a high production bottling plant

high performance RPV chain and sprockets, Ramsey take out arm systems are often more compact than take out arms from other manufacturers.

Payback time measured in months

Take out arm malfunction, or failure, leads to costly downtime, product loss, and maintenance. Because Ramsey drives provide extended, maintenance free drive life, all these costs are greatly reduced. In many cases, take out arms retrofitted with Ramsey drives produce a positive return on investment in only a few months. With this kind of results, it is often easy to justify upgrading existing drives.

How much can be saved?

Because they last longer, Ramsey drives can dramatically reduce the costs associated with frequent belt drive replacement. How often do you have to replace take out arm drive belts? Examine the charts provided to estimate how much you can save by retrofitting with a Ramsey drive.

Proven results

Years of testing on high production glass lines have shown that no belt driven take out arm provides the durability and life of a Ramsey take out arm drive. Ramsey drives outlast even the highest quality belt drive. This directly translates to greatly extended periods of maintenance free, trouble free operation.

In addition to being field-tested and field proven, each Ramsey take out arm is dynamically tested in our production test facility before shipment. ■



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CORPORATION

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