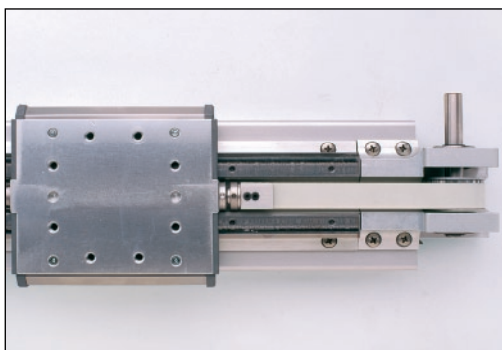
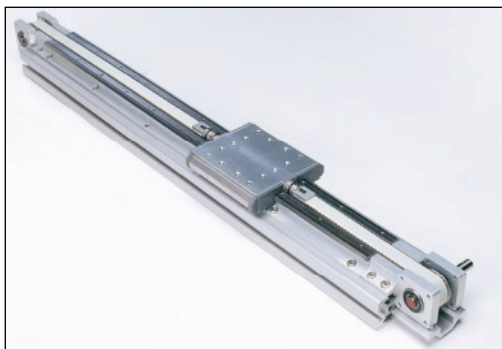


Medical Equipment Application Profile



LoPro® Linear Motion Systems

Long Traverse Length and Smoothness Provide the Solution

Challenge / Opportunity

The medical industry was in need of a coil winder that could mass produce wound wire products yet, at the same time, meet the ever demanding need for extremely high quality coils. The customer needed a very low profile and longer lengths than an industry standard linear system.

Application Description

These coils are used in various applications as tools to help implant medical devices in humans as well as a method for delivering parts such as a stent. Additionally, they are used as leads in pacemakers.

Solution

Bishop-Wisecarver provided a medical machine builder with a slightly modified LoPro® off-the-shelf. A size 3 LoPro® was selected to deliver wire to the arbor. The LoPro® is being driven by a brushless servo motor, required to meet the accuracy demands of winding a wire .0004 inch diameter around a wire .0004 inch diameter having a .0004 inch pitch. A special wheel plate was designed with a locking lever to hold the wheel plate in place during the winding process.

A bench top model produces coils up to 30 inches long and a floor model can produce coils up to 156 inches long.

Product Details

LoPro® Linear Motion Systems are pre-engineered modular units consisting of an anti-friction slide way and a linear actuator. Standard drive actuators include belt and pulley, chain and sprocket, lead screw and ball screw. LoPro®'s integrated design is a highly versatile and cost effective means of achieving high performance, driven linear motion. LoPro® linear systems are suitable for numerous applications.

- Available in four sizes and customizable to virtually any stroke length – limited only by the method of actuation
- Speeds in excess of 8 meters per second
- Low noise, smooth, anti-friction operation
- Sleek, low profile design allows for tight fits and unmatched aesthetic appearance.
- Custom length steel or aluminum support structures available
- Wide footprint allows extra stability.

Contact us to discuss your specific linear motion needs: 888.580.8272 – or visit us online at www.bwc.com

(Catalogs may be downloaded directly from the Bishop-Wisecarver website)