Compact by Design
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Improved Cost Savings and Throughput on Slicing Machine

CAP cylinders streamline cutting machinery

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Product Overview

A leading manufacturer of tubing, hose, and wire cutting machinery was searching for ways to improve the performance of their slicer equipment. Their slicing machines are required to handle 13,000 pieces of medical tubing, 4" in length every hour, or cut 7,300 pieces, 10" in length every hour. This translated to feed rates for the tubing of 1"- 30" per second.

The application required an actuator that could be coupled to a guillotine-type custom blade while the machine performed in a restricted space. The blade had to cut through standard heat shrink tubing as well as the tough adhesive lined tubing.

Product Solution

Compact Automation Products (CAP) recommended a standard SFH118x34-TM-UC3 cylinder. This product met the requirements for space efficiency by minimizing the internal constraints of the slicer while meeting the stroke/travel objectives and achieved a consistent slice every time. The unit also surpassed the life-cycle expectations of the customer and has achieved 7,500,000 cycles in the field. The Medical Slicer is UL/CE listed, with FCC Class B Certification.

Application Opportunity

The application solution allowed the customer to greatly reduce their overall cost and improve the throughput for each project. CAP met the rugged demands of the Slicer application while working within Medical industry guidelines. Future projects will require variations of this actuator, meeting the stringent mounting and space requirements, as well as the demand for increased throughput.

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