

**APPLICATION SOLUTION: Oil Rig Cable Guide**



**Product Family:** Pneumatic  
**Product Used:** CC20 Cable Cylinder  
**Product Type:** Modified Standard

**Application Description:**

Guiding cable onto a spool on an ocean oil rig.

**Challenge:**

A rodless pneumatic actuator was to be used on an ocean oil rig to guide cable back and forth onto a spool. A guide would be mounted to the actuators carrier to accomplish the task. The actuator needed to hold up to the environment (sea salt, UV rays and water) and also provide a slow, smooth motion—hard to achieve using pneumatics as an operating system. They needed a solution to be delivered quickly to get the operation up and running. The actuator needed to work with their previously tested bearing system which would provide the force required to raise the cable.

**Tolomatic Solution:**

Several different solutions were discussed and the customer decided on a special 2-inch bore cable cylinder with low breakaway seals for the fastest delivery option. The cylinder's bore size was large enough to provide the force required for guiding the cable and the seals allowed the cylinder to provide the slow smooth motion required. An enclosure was design to keep the actuator from contamination and exposure to UV rays.

**Customer Benefit:**

- The cable cylinder guided the cable onto the spool working with their existing bearing system
- Slow, smooth motion was achieved using pneumatics
- Installation met their delivery time constraints