



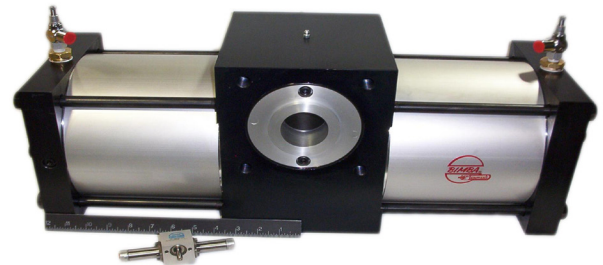
Large Bore Rotary Actuator Produces Amazing 10,000 in-lbs of Torque at Only 80 psi

Challenge:

A customer wanted to use a rotary actuator to control the angle of the vanes on a power generating turbine for a company that harnesses solar energy from tropical oceans. They use this energy to generate electricity, produce desalinated water, and grow food, all in the ocean environment. The problem was the customer needed a single rack actuator rated at 10,000 in-lbs of torque at 80 psi.

Solution:

Bimba's engineers took a customer's idea and created a solution for this unique application. Bimba developed an 8" bore rotary actuator that was custom made with a special hollow shaft and end cap to accept an existing coupling in a custom made case to last in a corrosive environment with the exposure to sea air and water. Bimba also added encoders to the unit to provide feedback to blade position.



Benefits:

- High torque at low pressure.
- Custom built for corrosive environments.
- Encoders provide position feedback.

Other Applications:

- Transferring
- Opening/Closing
- Mix/Agitate
- Camming
- Bending
- Feeding
- Indexing