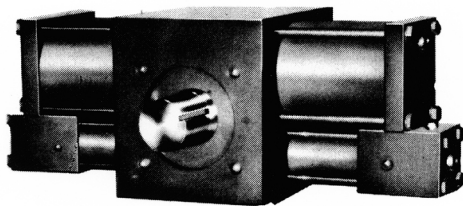
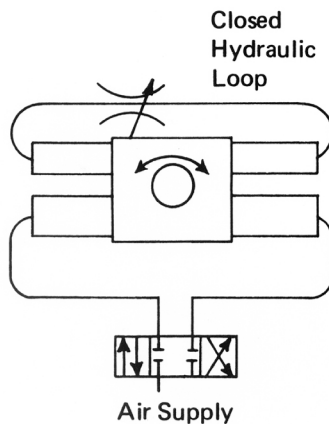


AIR OPERATED / OIL CONTROLLED ROTARY ACTUATOR



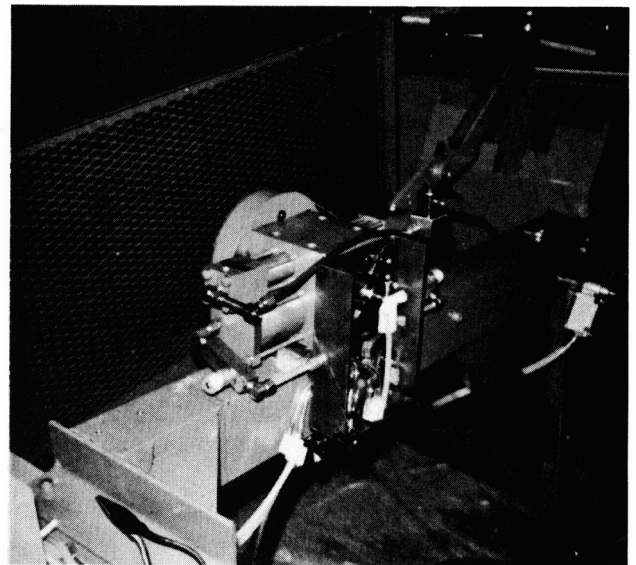
The Actuator

Moog Flo-Tork's new Rotary Actuator is operated by plant air and smoothly speed controlled by hydraulic oil. The unique unit features a dual rack and pinion design rotary actuator with an air operated rack on one side of the pinion and a hydraulically controlled rack on the other side.



How It Operates

The unit develops 500 in-lb of torque at 100 psi of air. It rotates 180° and has 11.24 cu. in. of air displacement and 1.70 cu. in. of hydraulic displacement.



The Application

Using modified harmonic motion this machine, utilizing Moog Flo-Tork's new unit, feeds and turns over material as it advances to the next station. The process can be reversed to remove the part and stack or discharge it down a chute. The hydraulic speed control allows precision placement of the most fragile materials. This rotary actuator can be applied to high speed transfers using manipulators, robots, automatic transfers and press feeds to meet OSHA standards. The arm can extend from 1 to 5 feet, or even beyond, from the shaft.

Advantages

This uncomplicated device can meet OSHA standards for feeding presses and other applications. The easy availability of plant air allows it to be used economically. Available in any degree of rotation, up to 5 turns, the rotary actuator has built-in cushions on the hydraulic end.