

SHOCK ABSORBER INCREASES CAPACITIES

In traditional industrial shock absorbers, size and power are dependent on piston diameter, which is limited by the wall thickness of the outer and inner tubes. Engineers at ACE Controls Inc., Farmington, Mich., redesigned the shock absorber's internal structure, creating a larger area for the piston and hydraulic fluid, within the same body size.

The SC2 Series Heavy-weight shock absorber combines the piston and the inner tube into a single component, called the piston tube. It has holes that control fluid flow, letting the tube control and create the pressure. This piston-tube arrangement lets the shocks handle almost 10 times the effective load of conventional shocks. SC2 Heavyweight Models prevent impact damage, dampen noise, and allow faster cycle rates. Industrial-equipment applications include rotary actuators, rodless cylinders, slides, conveyors, and other operations that require decelerating heavy weights at relatively low speeds, less than 2 ft/sec.

Circle 401

A shock absorber in the SC2 Series from ACE Controls increases capacities by combining inner and outer tubes into one. The SC2 Heavyweight 300 Model has an effective weight capacity of 4,300 lb.

