

## Continuous Strip Process Line Horizontal Accumulator Jarret Shock Absorber Application

Continuous strip process lines require the use of vertical or horizontal accumulator systems to allow material to be stored or drawn off when coils of material are being joined. In process lines incorporating horizontal accumulators, the accumulator cars are pulled by a cable system to accumulate the maximum length of material in preparation for continuous feed from the entry end when stopped for welding of the strip or removal of a finished coil on the exit end by the downstream strip tension.

In the event that all the material stored in the accumulator is used up before the entry end welding process is complete, it is necessary to stop the downstream process. This is typically done by sensing the position of the accumulator cards so that the downstream drive is stopped before the cards impact the end-stop. In the event of a malfunction of the position sensing device, the car is driven into the end-stop and can cause extensive damage.

The incorporation of JARRET elastomeric shock absorbers can smoothly decelerate the accumulator cars preventing damage. The unique characteristics of the Jarret elastomeric shock absorber allow the propelling force induced by the strip tension to be counterbalanced before the kinetic energy of the car is absorbed resulting in a smooth, progressive stop before the full stroke of the Jarret shock absorber is used up.

In addition, the JARRET units will maintain full integrity of the seals (and therefore remain functional), even if the shock absorber is not stroked for long periods of time. This differs from a hydraulic shock absorber whose seals will dry out and crack, thereby failing to maintain the pressure necessary for energy absorption if not stroked regularly to keep the seals moist.

An inventory of standard sizes provides ready availability for most applications. A repair facility is available to recondition worn units if required, thus assuring long economical service.

