

Collision sensor

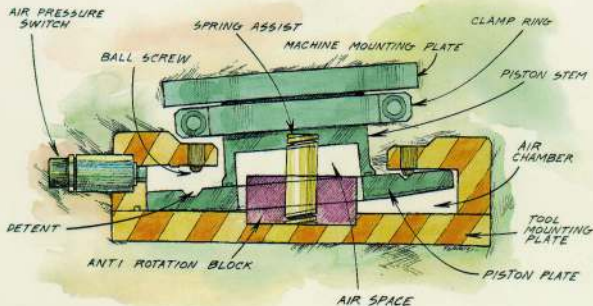
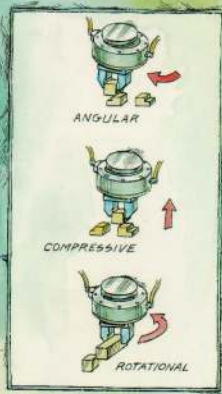
No one likes downtime, particularly when manufacturing low-cost, high-volume parts. Implementing an air-actuated collision protection device can help maintain high production.

One company, for example, installs the sensor at the base of a pneumatic gripper designed to load/unload automotive parts to a spin balance machine. If there is a collision or dynamic overload, the sensor absorbs the shock to eliminate downtime from changing out a broken gripper or bent slide.

Response is fast and stiffness, programmable. Unlike spring-loaded devices, Quick-STOP's break-away threshold varies with air pressure to accommodate a wide range of loads. Other applications: machine tools, arc welding, material handling.

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Because it is programmable, QuickSTOP avoids the nuisance trips of fixed spring settings. Sensor operation: A regulated air supply provides positive, variable pressure to hold the unit rigid during normal operation. At impact, the air chamber opens; a 'loss of pressure' signal shuts the system down. Detents allow easy reset.