

Safety Clamping Devices

ROSS CONTROLS specializes in pneumatic and hydraulic safety solutions.
When needing rod locks, rod brakes or safety catchers ROSS will provide you the optimum solution for every application.

Safety Locks

Safety Locks similar to Safety Catchers and Safety Brakes are used against failure of lifting members. But in contrast to those they are not suitable to decelerate masses or to dissipate kinetic energy. On the other hand, the rod displacement to build up the holding force is very small, so that this units can be used for a approximative positioning tasks as well. Furthermore this design principle allows compact solutions even for small rod sizes (smaller than for Safety Catchers). In the field of pneumatic clamping devices the Safety Locks are providing the absolutely highest holding forces in relation to housing dimensions.



Safety Brakes

The Safety Brakes are designed to hold a vertical moved mass in one direction (against gravity). The holding is done on a round shaft. This could be an already existing cylinder rod or a separate rod. The Safety Catcher can also be used to catch the falling load in case of an emergency-stop. The holding force is relatively big in one direction (downwards) and in the other direction (upwards) relatively small.

Safety brakes are already used in the following applications:

- vertical or diagonal machine tool axes
- vertical axes of loaders



Safety Catchers

Safety Catchers are used where personal protection and accident prevention must be provided against failure of lifting members in an area where loads or tools are raised. Protection, for example, if a hydraulic or pneumatic pressure system fails, or if a rope, chain, belt, or toothed drive breaks.



For information or technical assistance please call ROSS Technical Services in the U.S.A. at 1-888-TEK-ROSS(835-7677)

ROSS
Consider it **DONE!**