



# HALOK SAFETY SYSTEM



10-inch HALOK Safety System



HALOK on top of Bulk Blaster

Attempting to open the 10-inch closure on a Schmidt® bulk unit while the vessel is pressurized, or attempting to pressurize a vessel with an improperly closed closure, can lead to serious injury or death. The HALOK® is a device specifically designed to be installed onto an existing 10-inch closure typically welded on top of a standard Schmidt Bulk Blasters. It mechanically directs the operator to follow proper procedures for opening and closing these types of 10-inch closures.

The basic concept of properly opening the 10-inch closure on top of a Schmidt Bulk Blaster is to swing down all of the cam handles while making sure each and every swing bolt stay within the receiving lug. Swinging each cam handle will effectively loosen its corresponding swing-bolt nut and eventually slightly loosen the closure lid from its seal releasing air if the blast pot is under full pressure. This release serves as an indicator and warning. Although slightly loose, the closure lid is secured and cannot open or release because all swing bolts are safely placed between their corresponding receiving lugs. As an additional indicator and warning, the force exerted by air pressure on the closure lid will noticeably increase the resistance or torque required to swing all of the cam handles down. The HALOK's patented mechanical design prevents the operator from improperly opening the closure and assures the proper sequence of operator actions. In addition, it guards against using tools to improperly force the swing bolts out of the receiving lugs.

Properly closing the closure requires first that all five swings bolts are sitting securely within the receiving lugs before pushing all cam handles to tighten down the closure lid. This ensures alignment of the o-ring and proper seal prior to pressurization. The HALOK's mechanism will not allow the cam handles to swing back to the closed position until all five swingbolts are within their corresponding receiving lugs, again guiding the operator to the proper sequence of actions.

## FEATURES:

### Upon Opening:

- Ensures the operator follows proper Standard Operating Procedure (SOP)
- All handles must be released before the swing bolts are released from the lugs
- Prevents hitting the top of swing bolts with a hammer
- Handle extensions allows operators to release handles without any additional tools, such as a pipe or prybar

### Upon Closing:

- Requires all swing bolts be in lugs before any handles are engaged
- This helps ensure closure is pulled down evenly



# HALOK RETROFIT KIT



The HALOK® Safety System, standard on all Schmidt® bulk blasting equipment manufactured after February 2010, mechanically requires the operator to follow safety procedures when opening the 10-inch closure on the top of bulk blasting equipment. This critical safety device is recommended for all Schmidt bulk equipment. A new field retrofit/installation kit for the HALOK Safety System is now available to complete this upgrade without the need to remove and return the 10-inch closure lid or in some instances, the entire bulk unit, to Axxiom for factory installation. This kit significantly reduces equipment downtime and eliminates freight expenses associated with the return of equipment to the factory. It also allows the equipment owner to install the HALOK Safety System at a time that is most convenient to their operation.

The HALOK kit for field retrofit/installation was designed by thoroughly evaluating bulk unit closure assemblies manufactured over a thirty year period. The result is a HALOK product that is a universal fit for 5-lug closure assemblies.

## FEATURES:

### Upon Opening:

- Ensures the operator follows proper Standard Operating Procedure (SOP)
- All handles must be released before the swing bolts are released from the lugs
- Prevents hitting the top of swing bolts with a hammer
- Handle extensions allows operators to release handles without any additional tools, such as a pipe or prybar

### Upon Closing:

- Requires all swing bolts be in lugs before any handles are engaged
- This helps ensure closure is pulled down evenly



## FEATURES:

- 1 HALOK Interlock Plate Assembly (with Mounting Bearing and Rotation Limiting Pin)
- Retrofit Mount Bracket
- Lug Side Mount Bracket
- Camlock Handle Extensions
- Interlock Mount Hub
- Bumper
- Bearing cover
- Mount Screws and Nuts
- Mount Bolts and U-Bolt
- Lock Washers and Flat Washers
- Mount Hub Spacer (for Low Profile Closure Heads Only)

Contact your local Schmidt distributor or call Axxiom below for distributor information.