SAFETY—YOU ARE FAMILY

Safety is a top priority at Orbitform, not just in our own facility but in our customers' factories as well. Therefore, we discuss assembly machine safety options with our customers for each machine we build. Safety features and control options available; safety probes, dual palm buttons, polycarbonate guarding, and light curtains.

PNEUMATIC SAFETY PROBE

This device is an electric-air system that consists of two main components: the drop-probe assembly and the control box. The drop-probe assembly functions by allowing the sensing probe to drop around the point-of-operation hazard prior to each intended machine cycle. If the sensing probe encounters the operator’s fingers and fails to drop to a preset position, the machine cycle will not be initiated. If there are no obstructions to prevent the sensing probe from dropping, then the control unit will allow the machine to cycle when the sensing probe reaches the preset position.

- Ridged double guided rod actuated via gravity drop and pneumatic return
- Designed to minimize probe arm bounce
- Improved safety circuit using standard industrial safety relays
- Externally adjustable stroke (via clamp collar) from 0”– 4.5”
**HORIZONTAL SAFETY PROBE**

The wire ring pivots down when a foot switch is depressed. When the ring reaches a predetermined point—less than a finger’s width—a solenoid activates the clutch trip mechanism. If the probe is interrupted during decent, the clutch trip mechanism cannot operate. Easy to install, adjust, and maintain.

**DUAL PALM BUTTONS**

Dual Palm Buttons can be used as safeguarding devices in the single stoke mode of operation on all of our riveting machines. This feature keeps the operators hands away from the point of operation during the entire machine stroke.

**LIGHT CURTAINS**

The rugged metal housing 0.12 inch thick protects the light curtain body and makes them resistant to twisting and vibrations. Built-in guarding and a recessed lens will prevent impact to the lens surface by parts or tools. The overall size takes up a small footprint of 1.25 inches. Full-length indicators and digital display clearly show the real-time status of the curtain.

**POLYCARBONATE GUARDING**

Polycarbonate guarding is a lightweight engineering thermoplastic which allows operators to visually inspect and regularly monitor the machine and superior dimensional stability, while being heat resistant. Polycarbonate machine guarding panels block any small debris that could potentially injure any person near by.