

# Humane Percussive Stun/Killing of Salmon Using the Bock Industries Zephyr®-F

Randall Bock

Bock Industries, 156 Bock Lane, Philipsburg, PA 16866 USA. +1 (814) 777-3890 randall@bock-industries.com

Salmon hatcheries are seeking an alternative to manually applied percussive stunning. Mechanically applied percussive stunning delivers a consistent blow to the head with sufficient energy to produce an immediate, irrecoverable stun.

The Zephyr-F is a mechanical, non-penetrating captive bolt device developed by Bock Industries for the irrecoverable stunning of individual fish. The kinetic energy (27J) produced is effective on all commercial sizes of salmon, whether stock or breeding fish. For hatcheries seeking an alternative to conventional manual methods, *the Zephyr-F produces humane outcomes, improved visual aesthetics, and reduced operator fatigue.*



## Proper Stunning Technique

The Zephyr-F is positioned on top of the head, just behind the eyes. Firing the captive bolt produces an immediate, irrecoverable stun.

## Pneumatically Powered: 125 psi



## Zephyr®-F

- ▶ Fast & consistent irrecoverable stunning
- ▶ Safety features for operator and assistant
- ▶ Pneumatically powered for quiet operation
- ▶ Minimizes operator fatigue
- ▶ Adjustable adapters for all species
- ▶ Rugged construction featuring:
  - ▶ Titanium piston
  - ▶ UHMW bolt



### Our Company

Bock Industries designs and manufactures non-penetrating captive bolt devices for euthanasia of livestock on the farm.

### Our Mission

Quality euthanasia and humane slaughter represent important aspects of animal welfare. Our captive bolt technology helps protein producers achieve their respective animal welfare goals by delivering scientifically tested products that support:

- AVMA Guidelines on the Euthanasia of Animals
- Animal welfare audit programs
- Market requirements of retailers worldwide