



Volta Head Only Stunning System™

The VOLTA Head Only Stunning System is based on a completely new principle of stunning in poultry processing.

This principle of the stunning system is based on natural poultry behavior. The heads, of both larger and smaller birds, are positioned in such a way that they are accessible by the “head electrode”.

The birds are shackled on the overhead conveyor and pass through the VOLTA carousel which automatically puts them into the cones. The transport rail takes them to the point where stunning takes place. Before stunning, the heads are moistened by spray nozzles to ensure optimum conductivity.

The actual stunning is done by electrodes which are automatically placed next to the bird’s head and are activated during 3 seconds. The electrodes are designed in such a way that the stunning process is constantly monitored. The monitoring is done per bird and per second and can be followed on a screen. Per bird, this data will be stored in a computer file. The plant manager or the plant veterinarian can check these data at any time during the day and if needed, this information can be stored on a data stick or computer hard drive.

Birds which are not or only partially stunned will ignite an LED light signal that runs synchronically with that particular bird. These birds come to the attention of the machine operator, allowing him to take action by removing the bird from the shackle or manually stunning it. The time span between stunning and killing can be adjusted in order to be in compliance with government rules and regulation.

It is possible to program different interval times depending on a particular line speed of the moment. This ensures a high flexibility in operation. After the birds leave the VOLTA carousel they continue the normal slaughter process and the next step will be to go through the correct bleed-out process.

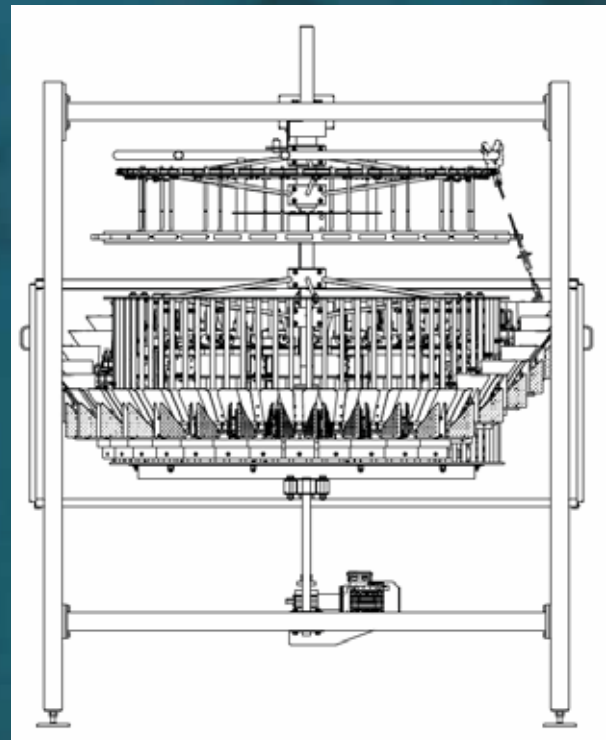
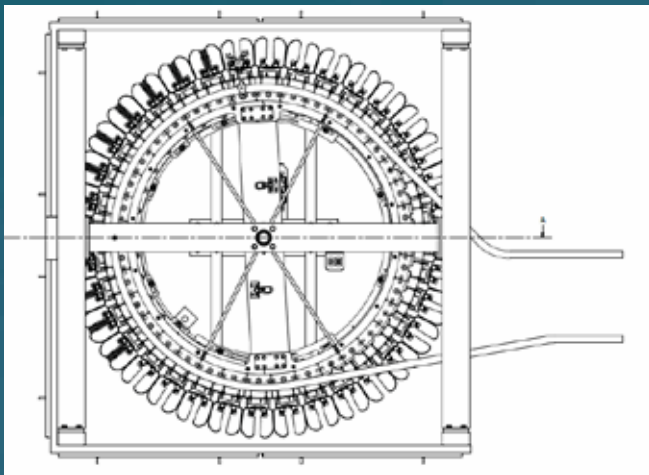
Topkip’s patented Stunning Technology is the only method in the world which meets the strict Halal slaughter regulations enabling advanced poultry slaughter companies to broaden their scope of activities into Islamic regions.



Advantages Volta Head Only Stunning System™

- Minimum product damage
- Excellent quality characteristics of poultry carcasses
- Individual stunning, tracking and tracing
- High stunning efficiency
- Excellent alternative for water bath and gas stunning
- Suitable restraining during stunning, animals remain calm without any stress
- The bird resistance determines the proper stunning electrical current
- Bird is immediately unconscious and non-responsive to pain
- All birds recover to consciousness after stunning
- Easy to integrate in existing slaughter lines
- Compatible with all overhead conveyor systems and slaughter shackles
- System is Halal certified

Technical information	Operating principle
<ul style="list-style-type: none">• Percentage non-stunning $\leq 1\%$• Voltage $\approx 90/130$ volt• Current minimum ≈ 240 mA (by law)• Frequency 50 Hz• Average time unconscious /100sec.• Every slaughter shackle type possible• T or Tube track integration	<ul style="list-style-type: none">• Manual shackling of birds• Automatic positioning into cone shaped holder• Individual resistance measurement• Individual Stunning• Voltage registration per bird• Integrated tracking of non-stunned birds• Carrousel system



Scan to
Visit Our
Website

English, Français, Español

www.topkip.com

A Stunning Solution for Poultry