

Food pasteurization system in the United States

In the United States, Titan Scan has developed a pasteurization system for sterilizing food. Its patented SureBeam® technology utilizes an electron beam to effectively eliminate pathogens such as *E. coli 0157:H7*, *Listeria monocytogenes*, *Salmonella*, *Campylobacter*, etc. No radioactive isotopes are used in this process. The system delivers high-quality, reliable sterilization processing that complies with international standards.

The SureBeam 10/15 has been designed from inception exclusively as a medical product sterilization system. The Suretrack® Control Subsystem ensures that the product is accurately controlled throughout the process and provides a validated process interrupt procedure in the event of any system failure. Some features of the SureBeam system include:

- Linear accelerator subsystem: An industrial grade RF linear accelerator provides the radiation source;
- Multiple beam scan height for optimal throughput – user selectable;
- Material handling subsystem: Products are loaded on to specially designed carriers, which are guided through the radiation process;
- Power: 15 kW, upgradable to 35 kW;
- PLC-based real-time control system monitors and controls the flow of products throughout the system; and
- Safety subsystem: An independent safety control system continually monitors and controls the safety devices and support equipment.

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