



# Sterile Insect Technique

Environmentally friendly, natural vector control



**PRECISION**  
X-RAY IRRADIATION



Vector borne diseases account for approximately 17% of all infectious diseases globally, claiming more than 700,000 lives each year <sup>1</sup>

<sup>1</sup>as reported by the World Health Organization 2020



## Sterile Insect Technique

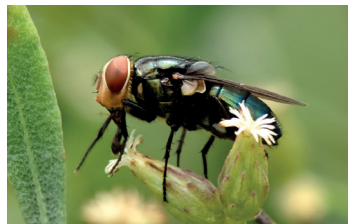
An environmentally safe, natural vector control of insects used to prevent the transmission of disease, maintain agricultural prosperity, and improve the health and well-being of the human population.

Insect population is controlled by releasing sterilized males into a targeted area. Sterile males mate with females, producing non-viable offspring, reducing the overall population.

SIT has been used successfully since 1950 to control insect populations like:



Aedes Aegypti



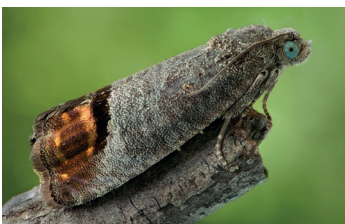
Screwworm Fly



Mexican Fruit Fly



Tsetse Fly



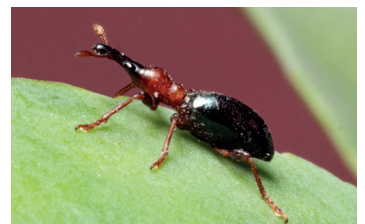
Codling Moth



Pink Bollworm



Cactus Moth



Sweet Potato Weevil

Sterilization is achieved through the use of x-ray, a safer and less expensive alternative to Cesium irradiation and GMO methods



## Key Features

- **Uniform dose delivery**  
via rotating insect holder
- **Environmental chamber**  
with integrated ports for injection  
of environmental gases
- **Temperature control**  
maintains insect viability
- **Intuitive touch screen interface**  
requires no specialized training
- **Safer alternative to  
Cesium irradiators**
- **No additional security**  
or licensing required





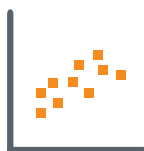


**Whether a new or existing customer, Precision X-Ray, Inc.  
will be with you every step of the way**



#### **Service Packages**

From single to multi-year warranties, we offer plans that fit your service and budget requirements.



#### **Dose Mapping**

Visualizing dose variations across the irradiation field to enhance experimental accuracy.



#### **Remote Support**

Your first line of assistance to diagnose and troubleshoot issues, minimizing downtime.



#### **Options & Upgrades**

Helping you get the most out of your technology today while expanding your future research capabilities.



#### **Equipment Management**

From initial setup to relocation or removal, our experts manage the entire process with precision and care.



#### **Customer Training**

Personalized instruction and guidance to help effectively operate your system and achieve desired results.



#### **Applications Support**

Our experts help get your experiments running and support you as your research evolves.



#### **Preventative Maintenance**

Proactive care to keep systems running at their optimal level of performance.



MKT-00026 Rev. A

**PRECISION**  
X-RAY IRRADIATION

∞ Part of Tibidabo Scientific Industries



Email: [sales@pxinc.com](mailto:sales@pxinc.com)  
[www.precisionxray.com](http://www.precisionxray.com)