

High power e-beam machines for industry

CONFIGURABLE ENERGY

9-12 MeV electrons.

Select the energy that delivers the best penetration and the best dose uniformity.

HIGH RELIABILITY

24 hours per day, 7 days per week, 365 days per year.

Low operating costs.

Standard commercial components.

OUTSTANDING CONTROL

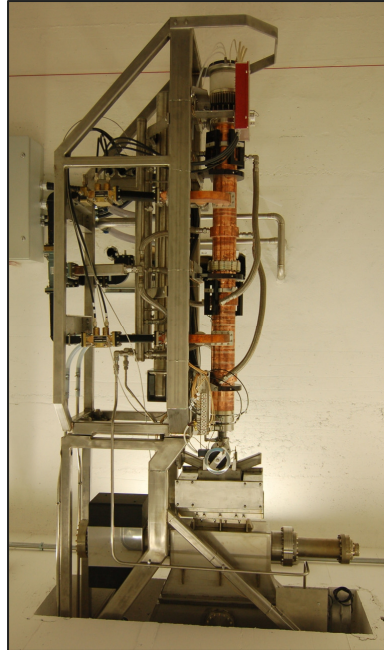
PLC control for low-level machine functions.

Windows-based user interface.

Microsoft SQL database.

Detailed batch tracking and scheduling.

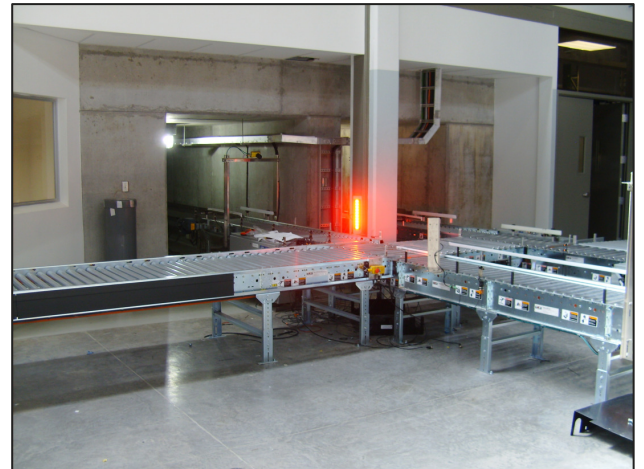
Recipe storage and management.



- Optimum beam power is achieved at 10MeV.
- Configurable beam power.
- Add beam power as your business grows.
- PC user interface and data management.
- Trend data is stored for analysis.
- Compact size with high throughput capability.
- Parametric release of products.
- Remote diagnostics over internet (or phone line) .

Mevex 's family of high energy , compact accelerator systems is ideally suited for the following types of applications:

- Treatment of boxes of medical products.
- Treatment of packaging materials.
- Treatment of animal feed, pet treats.
- Cross-linking materials.
- Phyto-sanitary treatment of fruits and vegetables.
- Treatment of gemstones.
- Treatment of semiconductors.



Beam penetration:

Single-sided (10MeV)	3.8g/cm ² (38cm of 0.1g/cc material)
Double-sided (10MeV)	8.6g/cm ² (86cm of 0.1g/cc material)

Specification Summary

EASY INTEGRATION

Mevex's philosophy is to simplify the installation of your electron beam system. Easy cooling water, easy electrical, easy mechanical.

The Mevex cooling system is a closed loop system. The heat exchanger has large passages to prevent clogging. This means that there are no unreasonable specifications on the quality of the water used to cool the machine.

The system is capable of accepting facility cooling water over a wide temperature range which means that cooling towers and fan boxes are viable options.

The Mevex family of accelerators is designed to withstand unpredictable electrical supplies without exotic protection equipment.

E-beam made easy.

Beam orientation	Vertical
Beam energy (Ep)	9—12 MeV
Energy spread	+/- 5%
Beam pulse current is adjustable	20 to 440 mA
Beam pulse duration (selected during fabrication)	15 usec (typical)
Pulse repetition rate is adjustable	0 to 800 pps
Average Beam Current is adjustable	Up to 6 mA
Scan chamber material	Stainless Steel
Scan length at electron window	130 to 800 mm
Scan length at electron window (unobstructed)	1200 mm
Window width (unobstructed)	110 mm
Electron window material	0.002" TiVAI
Scan frequency	0.2 to 5 Hz
Window cooling	Longitudinal air flow



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