



# Application Development Unit

To conduct in-house testing of low voltage electron beam processes, Advanced Electron Beams offers the industry's most compact, cost effective lab-scale electron beam system. The AEB Application Development Unit offers researchers the key components they need to verify the suitability of electron beams for their applications and speed their time to market with new electron beam enabled processes. The AEB Application Development Unit is comprised of an electron beam emitter, power system, conveyor system, and computer touch screen control. In addition, Application Development Units are available with optional features to facilitate application-specific testing requirements, such as nitrogen inerting.

## Platform Advantages

The Application Development Unit leverages AEB's unique electron beam emitter technology to deliver unique advantages for lab researchers including:

**Small Footprint:** The industry's only bench top device consumes little valuable lab floorspace

**Low Maintenance:** Modular emitter design and rack mountable power system enables plug-and-play maintenance by personnel with no special training

**Flexibility:** Designed to simulate a wide range of production environments

**Simplicity:** User interface designed to facilitate experimentation



Advanced Electron Beams offers proven solutions for in-line electron beam sterilization for pharmaceutical, medical device, food, and beverage packaging applications. For more information: [www.aeb.com](http://www.aeb.com)



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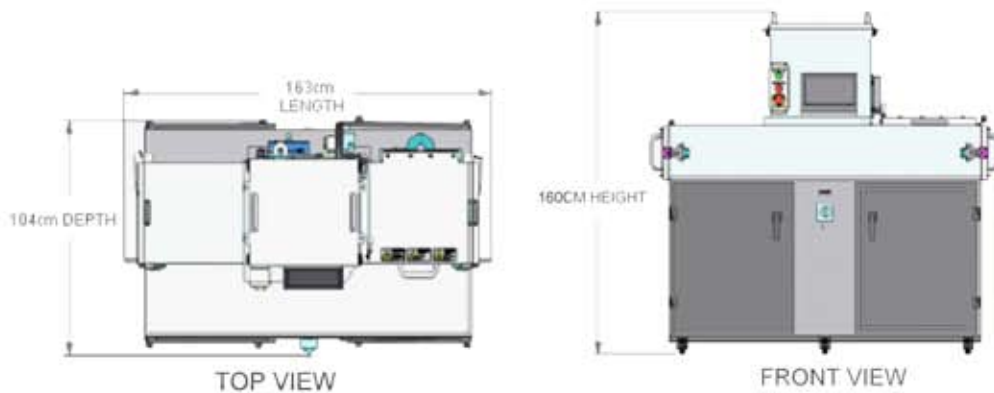
# Addressing a Range of Applications

The flexible approach offered by AEB enables research and testing of electron beams across a variety of applications that include:

- Curing of inks , coatings, and adhesives on any substrate, including coated and uncoated paper, film, foil, metal and wood
- Surface treatment and materials engineering for films, fibers, composites, membranes, etc...
- Sterilization of packaging materials, medical devices, pharmaceuticals, etc...
- Food treatment

# Easy to Operate, Easy to Maintain

The AEB Application Development Unit is easy to operate, requiring no previous training or expertise in electron beam technology. Because there are no vacuum pumps or other moving parts (with the exception of the conveyor system), the AEB Application Development Unit is easy to install and requires no regular or costly maintenance. When service is required, AEB offers a “plug-and-play” maintenance approach that allows system components to be easily replaced as needed. All components can be disconnected and reconnected in a modular fashion, enabling customers to drastically reduce system downtime while minimizing their support costs.



Operating Voltage	80 kV to 150 kV
Dose Level	50kGy with single pass
Power Consumption	1.5 kW at full power
Treatment Width	20 cm

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