

EB BroadBeam - LE Series

A product of PCT Engineered Systems, LLC

The LE Series is the latest addition to PCT's BroadBeam product line. It provides an improved means of leveraging the benefits of electron beam energy to help your organization improve its manufacturing operations. Our innovative designs deliver advantages in operating costs, process capabilities and ease of maintenance.

BroadBeam Delivers

- Integrated Shield Roll
Provides optimal web support, easy access and low nitrogen consumption
- Lower Power Consumption
up to 40% less than competitive models
- Easy Maintenance
Single window in "side fire" orientation
- Digitally Regulated Power Supply
Enables direct, remote troubleshooting

Profitable Applications

- Web Offset Presses
- CI Flexo Presses
- Laminating Lines
- Coil Coating
- Specialty Crosslinking



Electron Beam Advantages

Electron beam technology addresses key challenges for today's manufacturer. The high speed reaction requires very little energy. It is also environmentally smart, requiring no solvents and producing virtually no VOC's. For food packaging producers EB provides low taint, odor, and migration; is food compliant; and generates little substrate heating.



LE BroadBeam with Chill Roll



LE BroadBeam without Chill Roll

LE Series Specifications

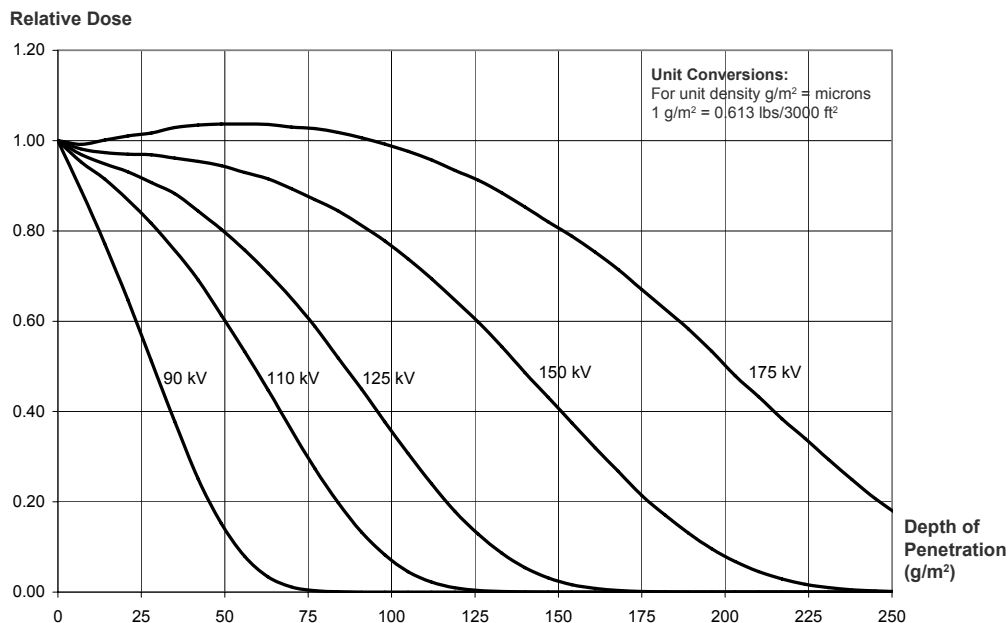
Voltage Range	90kV to 175kV
Standard Web Widths	1.820 mm, 1.370 mm, 910 mm
Surface Dose Rate Standard	30 kGy @ 400 MPM 12.000 kGy MPM from 100kV to 150kV
Beam Direction	"Side fire" (Horizontal)
Reaction Chamber	Patented Integrated Chill Roll
Uniformity – Cross-web	+/- 8%, Guaranteed
Nitrogen Inerting	200 ppm typical – other levels provided
Radiation Monitors	2 Rad Alert sensors and controls included
Window	Solid copper with machined holes and internal cooling passages. Single window foil
High Voltage Power Supply	Digitally regulated with integrated spark management, can be remotely mounted
Control	PC based HMI; Siemens PLC
Utilities Required	Electric: 480 VAC @ 60 Hz / 400 VAC @ 50 Hz Cooling Water: 100 psig (6.9 bar) 70 to 90 F (21 to 32 C) Nitrogen: 100 psig (6.8 atm) to 150 psig (10.2 atm), filtered to 5 microns

Dependable Operation

Built upon BroadBeam's solid reputation for superior uniformity and reliability, the LE Series retains the best features of our proven design. This space saving package has been tailored for the lower voltage range needed for printing applications.

Maintenance accessibility has been given a high priority. The "side fire" orientation provides easy access for foil changes. We also configure the PLC-based controls for access by your maintenance technicians.

BroadBeam LE Depth/Dose Profile



About Efsen - PCT Europe

Efsen has worked 28 years supplying UV & EB equipment. Efsen Engineering is Authorized Service Representative for PCT BroadBeam Systems in Europe.

The TeamPCT Extra

There is even more to the LE Series than innovative equipment design. Like all BroadBeams the LE is backed by the support of Team PCT. Our company is committed to complete customer satisfaction.

We strive to respond our customers' needs and we deliver professional service and support after the sale.

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