



# SMARTER ENERGY

## ***Achieve Greater Profitability Satisfy More Customers***

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; you will agree that it is **Smarter Energy**. This innovative design delivers advantages in operating costs, process capabilities and ease of maintenance.

### ***BroadBeam Delivers:***

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



## ***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.

### ***Profitable Applications:***

- **Web offset presses**
- **CI flexo presses**
- **Laminating lines**
- **Coil coating**
- **Specialty crosslinking**



## **LE Series Specifications**

Voltage Range	90kV to 150kV
Standard Web Widths	72" (1800 mm), 54" (1370 mm), 36" (910 mm)
Surface Dose Rate - Standard	3 Mrads (30 kGy) @ 1312 FPM (400 MPM) 3940 Mrad FPM (12,000 kGy MPM) from 100kV to 150kV
Beam Direction	"Side fire" (Horizontal)
Reaction Chamber	Integrated chill roll (Patent Pending)
Uniformity – Cross-web	+/- 8%
Nitrogen Inerting	200 ppm
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.

### **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 be responsive to our customers' needs and we deliver professional service and support after the sale.

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