



EB System for Coil Coating

Technology Breakthrough

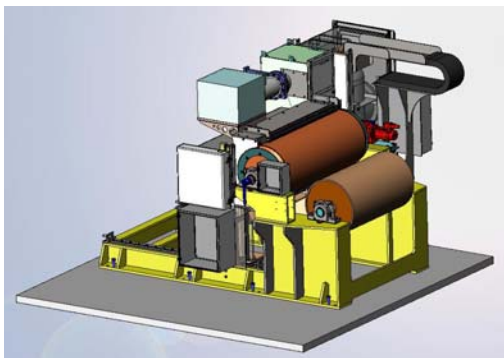
Congratulations on recognizing the many potential advantages of harnessing the efficiency and simplicity of EB curing for your coil coating line! PCT is offering the first EB system designed specifically for use in this application. This system is positioned to provide a revolutionary advance in the coil coating process. You will profit from reduced operating costs and a dramatically improved environmental footprint.

Advantages for Coil Coating:

- **Greatly Reduced Energy Consumption** - Uses less than 10% compared to convection
- **Higher Throughput** - Energy to cure at higher line speeds
- **“Green” Technology** - Eliminates solvents and significantly reduce emissions
- **Very Compact** - Reduced Floor Space

Designed for Coil Coating

The BroadBeam design includes specific features for the production environment of a coil coating line. The structure of the system is built to withstand high strip tensions. An automated open function allow stitches / welds to pass. We have also ensured that the roll diameters are large enough to avoid coil set in the metal.



Higher Throughput

Don't let your drying oven limit your productivity. With instantaneous EB curing you can significantly increase the throughput of your line. The small size of an EB system also opens the door to retrofitting on existing lines.

Lower Power Consumption

Let us show you the energy savings you will realize a BroadBeam on your coil coating line. The result is typically less than 10% of what is required for a conventional line using convection ovens. This technology also produces less pollution providing the ultimate “green” curing technology.

Easier Maintenance

Our patent-pending integral chill roll design provides easy access to the roll surface for cleaning. The window area is also easily accessible to facilitate foil changes. Our standard remote diagnostics allow for 24/7 monitoring by PCT's expert technicians.

Dependable Operation

PCT has been delivering solutions to our metals customers since 1986. BroadBeam EB systems have been in use for over 25 years.



BroadBeam LE Series Specifications

Voltage Range	90kV to 150kV
Standard Strip Widths	69" (1750 mm), 54" (1370 mm), 36" (910 mm)
Throughput	3 Mrads (30 kGy) @ 1312 FPM (400 MPM) 3940 Mrad FPM (12,000 kGy MPM)
Beam Direction	"Side fire" (Horizontal)
Reaction Chamber	Integrated chill roll (Patent Pending)
Uniformity – Cross-web	+/- 8% Guaranteed
Nitrogen Inerting	< 200 ppm
Radiation Monitors	2 RadAlert sensors and controls included
Window	Solid copper with machined holes and internal cooling passages Single window foil
High Voltage Power Supply	Digitally controlled, high frequency IGBT switching with integrated spark management; Can be remotely mounted
Control	PC based HMI; Siemens PLC Remote diagnostics standard
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
Approximate Dimensions	36" Web: 87" (2199 mm) x 133" (3373 mm) x 122" (3104 mm) 52" Web: 87" (2199 mm) x 133" (3373 mm) x 138" (3510 mm) 68" Web: 87" (2199 mm) x 133" (3373 mm) x 154" (3917 mm)

The TeamPCT Extra

There is even more to the LE Series than innovative equipment design. Like all BroadBeams the LE Series 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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