



EB Dryer for Web Offset Printing

Technology Breakthrough

Congratulations on recognizing the advantages of variable repeat web offset printing! Now get the world's most advanced electron beam dryer system designed specifically for today's modern web offset printing equipment. The patent pending features of the BroadBeam OSD (Off-Set-Dryer) deliver breakthrough advantages that provide improved profitability in your printing operations.



BroadBeam OSD Delivers:

- **Lower Power Consumption** - 40% less than competitive models
- **Higher Throughput** - Energy to cure at full press speeds
- **Superior Film Handling** - Integrated chill roll
- **Easier Maintenance** - Low profile side-fire orientation

Lower Power Consumption

Let us show you the energy savings you will realize with BroadBeam OSD. (The result is tens of thousands of dollars in saving per year!) It also means less pollution proving the ultimate "green" printing technology.

Higher Throughput

Your press was designed for high speed printing. Don't let your EB dryer's limitations slow you down. Our advanced digital power supply technology delivers the power and control you need for maximum speed operation.

Superior Film Handling

Your offset press provides superior print quality on film substrates. While EB is an inherently "cool" drying technology, our integrated chill roll provides an even higher level of temperature control which allows curing on the most sensitive shrink label films. It will also handle the heat associated with curing heavy solid ink layers. Integrated chill rolls are an exclusive feature of BroadBeam OSD and are not available on competitive EB "down-fire" dryers.

Easier Maintenance

No more lying flat on your back to change foils. The low profile "side-fire" orientation of the OSD provides easy access. Save time and money by using a single window foil compared to competitive models that have two foils to replace. Our standard remote diagnostics allow for 24-7 monitoring by PCT's expert technicians.

Dependable Operation

BroadBeam has been delivering EB dryers for web offset printing for more than 25 years. These units continue in operation every day. BroadBeam OSD retains the best features of our proven design. The new features provide state-of-the-art EB drying to match modern web offset press technology.



BroadBeam OSD Series Specifications

Voltage Range	90kV to 125kV
Standard Web Widths	52" (1320 mm), 36" (914 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 or Allen-Bradley 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: 84" (2134 mm) x 62" (1575 mm) x 115" (2921 mm) 52" Web: 84" (2134 mm) x 62" (1575 mm) x 131" (3328 mm)

The TeamPCT Extra

There is even more to the OSD Series than innovative equipment design. Like all Broad-Beams the OSD 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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