

Lumen Digital Cutting Center



The First Cutting Machine for the Digital Age

Beam Dynamics' Lumen™ line of Digital Cutting Centers (DCC) are the most flexible cutting tools for any shop that manufactures graphics, signs, overlays or labels. With complete precision, the Digital Cutting Center cuts your most commonly used materials—from paper to polycarbonate to adhesives—all without costly dies or time-consuming handwork.

ELIMINATE DIES FROM YOUR PRODUCTION RUNS

Completely eliminate expensive dies from your plant. The Lumen Digital Cutting Center generates a cutting path based on the original computer-generated artwork, using the same registration marks used in the printing process. There's no setup, so it's faster for the operator and more cost efficient for your plant. The completely digital process means higher quality, more flexibility and greater precision—all at dramatically lower costs.



Kiss-cutting Applications

Kiss cuts of any material are a breeze and can be done simultaneously with through cuts, making the Lumen DCC ideal for overlays and labels. Designers can make labels that include an added tab that makes the label easier and faster to apply, significantly decreasing application time and increasing their value to your customer.



Ideal for High Volume Production or Short Runs

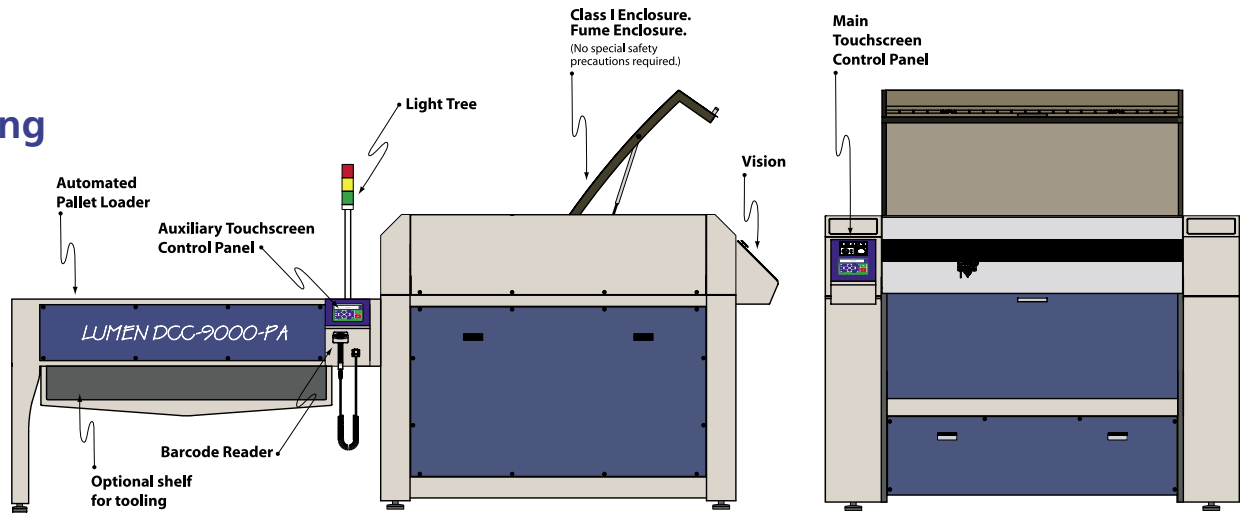
The Lumen's die-less cutting technique uses computer generated cutting paths to make it incredibly easy and inexpensive to do cutting jobs of any size. No dies or expensive handwork is necessary when cutting parts, meaning you can increase profits on short runs. For high volume production, the DCC-9000-PA has automated pallet loading and a bar code reader that automatically loads the correct cutting job. Because setup and careful alignment are unnecessary, a single operator can easily run several Lumen systems simultaneously, saving hours a day in labor costs.

Materials cut: (partial list)

Mylar	Matte board
Adhesives	Sheet metal
Foam board	Paper/Film
Stainless steel	Styrene
Glass	Cardboard
Polycarbonate	Lexan
Acrylic	Duraflex

Lumen

Digital Cutting Center



MODELS :

Lumen DCC-9000

Lumen Die-Less Digital Cutting Center

- 250w Sealed (maintenance free) laser
- SoftTouch Power Control
- RJ-45 interface connects directly to your network
- Digital Automatic Registration
- PC based control center software

Lumen DCC-9000-PA (Automated)

All DCC-9000 features plus:

- Pallet automation production cell
- Automatic exchange of pallets
- Job Batch software; Auto-run of multiple jobs in single loading of machine.
- Light tree for visual operation status
- Barcode reader for automated job programming
- Auxiliary control panel

FEATURES :

Flexible Cutting

The Lumen Digital Cutting Center cuts all standard graphics materials, and can perform through cuts, kiss cuts, and engraving—all in a single operation. You can even run multiple jobs simultaneously, each cutting a different material with different types of cuts.

Digital Registration System

Automatic Digital Registration of printed parts on existing registration marks assures perfect alignment when cutting.

Fast Cutting

High speed motion control allows stacks of materials, including adhesives, to be rapidly cut in a single operation. Large bed size allows multiple jobs to be put on the machine at once, dramatically decreasing operator time.

Die-Less Cutting

The Lumen Digital Cutting Center uses standard laser technology to cut multiple materials without dies or setup. Makes short runs, prototypes and one-offs extremely profitable for you, and completely removes the setup costs on larger jobs.

SoftTouch™ Power Control

At the heart of the Digital Cutting Center is Beam Dynamics' proprietary SoftTouch Power Control system. SoftTouch adjusts the DCC's power according to the material being cut, allowing an extraordinary range of materials and un-paralleled flexibility. This unique technology is what takes the Lumen to a new level in cutting machines and allows you to have full control of your cutting machine's power.

Dramatically reduce operator time

No setup, walk away operation, multiple pallets and automatic registration mean dramatic reduction in man-hours necessary to operate compared to traditional cutting machines. A single operator can simultaneously run multiple Digital Cutting Centers.

Flexible manufacturing

One machine can provide all your cutting needs—without retooling. In a single operation, the DCC can cut multiple materials and actions (kiss-cuts, through cuts or engraving) simultaneously.

Engraving

Easily engrave raster images in the same operation as cutting. Add part numbers in the same process where materials are being cut.

Standard graphics applications support

Works with Adobe Illustrator, AutoCAD, CorelDraw. Can import from most other vector based or CAD applications.

Barcode Reader – (DCC-9000-PA only)

Operators load the job to be cut simply by reading the bar code printed on the piece or job traveler. The Lumen System automatically loads the correct software to run the job.

Pass-through access

Doors on both sides of the system allow it to be put into in-line production environment.

Automatic load of multiple pallets

The Lumen DCC-9000-PA includes a pallet loading system for shops wanting more throughput. Operators can load up both pallets at once, begin the cutting job, and move on to the next task. The automatic pallet exchange dramatically increases throughput for any shop where time and speed are essential.

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See a video of the Lumen in action at www.beamdynamics.com