

## Printmark-Sensor

FlexiCAM introduced the Optical Cutting System (OCS) in response to the growing market of flat bed printers and the demand for an efficient solution to trimming printed parts laminated to thicker materials. Because not all printers print to the exact same size, and because graphics are not always printed or mounted square to the board, a solution was required for addressing these problems, thus the creation of OCS. This OCS is highly cost effective for short run jobs, and for jobs when die cutting just isn't going to work on substrates such as aluminum or thicker wood. The system uses its optical sensors for calibration of how the graphics are positioned on the board, and handles all corrections for printing and mounting problems, creating a great replacement for short run die cutting jobs. By eliminating outsourcing of parts to be trimmed, you are able to become more competitive with pricing on jobs, able to reduce turn around times, and add capabilities for other types of cutting to your business.

Works Great with:

- Brass
- Aluminum
- Plywood
- MDF
- Melamine
- Acrylic
- Polycarbonate
- Sintra ®
- Sign Foam
- Gator Foam ®
- Corrugated Plastic

Ease of use:

Only one basic control system is required for the operator to learn. The basic hand held controls make getting a new operator up to speed a painless task, requiring hours rather than days to complete. Training videos for use of the software are included, so by the time that our trainers arrive to do the setup and installation, you will have a good understanding of the fundamental skills and our trainers can pickup from where the video's left off, getting you into production right away.

Router Unique Features & Benefits:

FlexiCAM machines are designed for high throughput machining, so you are not limited to small bits, or cutting thicker material in multiple passes to get all the way through. With manual tool change spindles starting at 7.5hp and Auto tool changing spindles starting at 5hp, there is certainly enough power to cut Plywood in a single pass as well as being able to cut out letters from Non-Ferrous metals, such as aluminum and brass. The FlexiCAM OCS allows for the use of standard router bits from any local suppliers to you, keeping your operating costs of the machine low.

Software:

Included with the FlexiCAM OCS, is FlexiRoute. FlexiRoute is our easy to use and easy to program for converting your vector graphics from Adobe Illustrator ® or CorelDraw ® and converting them into cutting path information for the knife or router to follow. The software walks you through the process of selecting the fiducial, followed by creating the compensation and offset automatically for correction of graphics. With FlexiRoute there is only one piece of software to learn and this handles all requirements for the system. FlexiRoute enables you to do everything from trimming graphics, to creating complex 3D parts.

Why OCS?

Because FlexiCAM does it's own development on its software for controls, costs can be significantly minimized on the integration of algorithms for compensation of the stretch and skewing of parts, as well as handling of data from the fiber optic sensors. By doing this we are able to offer more machine for less cost than our competitors. How this benefits you:

- Perfect registration every time
  - Reduction in setup time
  - Bar coding available for fast setup
  - Reduction in waste material
- Oscillating Knife Option:

The oscillating knife option is a natural additional for OCS customers requiring cutting of softer materials such as poster board or foams, or any other applications where a router bit will rip rather than cut. The oscillating knife is also effective in cases where you can't afford to have the width of a router bit between objects, as parts are nested to closely

together for a router bit to fit between them

The oscillating knife can be thought of as being a high speed jigsaw with a scalpel blade on it. The control system insures that the blade is facing the correct direction and steers the knife through the material so that it always stays on course. The knife system can work in conjunction with the router so you actually have a knife and a router working on the same job cutting out parts in 2 separate manners. The OCS takes care of the compensation of swapping between the router and the knife, taking into account the fiducial marks found

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