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**VALIANI**  
cutting machines

# Optima

Twin Head Digital Cutting Machine



Distributed by:  
  
Crescent®

# Optima V

Twin Head Digital Cutting Machine

Cut up to  
**3/4"** \*  
in thickness



The **Optima V** flatbed cutting plotter, with its high precision, robust mechanics and reasonable starting price, is the answer for all applications in offset/digital printing industries, display and packaging market and apparel and leather industry. Its the ideal solution for short/medium runs of die cutting, prototyping, furnishings creation, textile/cardboard patterns cut and much more.

The **Optima V** is equipped with two independent and modular tool stations that prevent interruption during the work cycle.

The **Optima V**, with a combined vacuum assisted table and a new fold-away clamping system, provides incomparable working flexibility over a wide range of materials and unparalleled accuracies to meet today's production challenges.

The **Optima V** can be used effectively on a wide range of materials\*\*:

**Rigid material such as vinyl, PVC, Forex® & polycarbonate  
Rubber & Crystal Decoration Stickers  
Foam-board & Gator-board  
Honeycomb, Corrugated, Folding and Fluted Cardboard  
Textiles, leather & fabrics**

\*with optional oscillating tool head.

\*\*Some hard materials can be cut, however with limitations in thickness, speed and design.

The **Optima V** is perfect for the following industries:

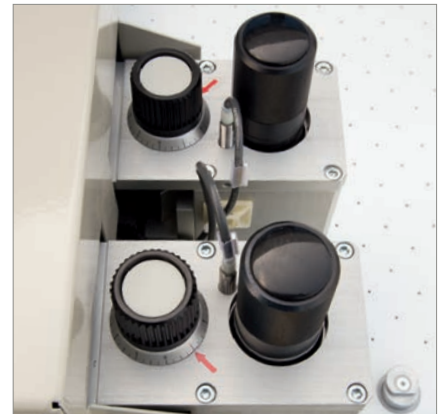
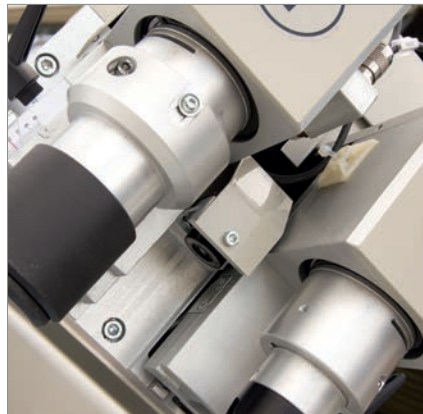
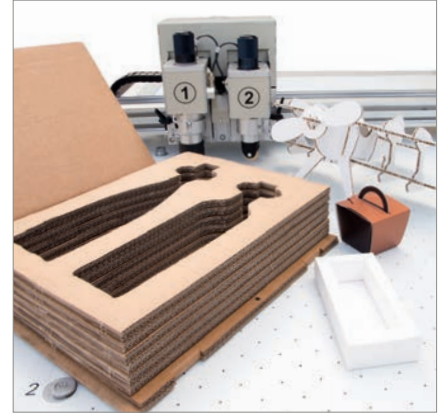
### Apparel



### Digital Printing



### Packaging



With **two configurable tool stations**, the Optima V is a medium-format professional cutting plotter capable of: Cutting, Half-cutting and Creasing; Drawing and Oscillating Cutting up to 20 mm (3/4") in thickness.

The Optima V comes as standard with a **camera for crop mark detection**. This device, used in combination with optional software **OptiCrop**, can perform accurate contour cutting and creasing around pre-printed media even with print-distorted materials.

Independent twin heads can be easily adjusted to various heights depending on the blade length and type. This ensures that you achieve the highest quality and cutting precision for all materials.



### Drawing Tool

Drawing/plotting tool to create dynamic drawing or text on the cardboard patterns.



**Optima V 80**



**V** STUDIO

**m<sup>3</sup>**  
Packaging Creator

**opti**  **crop**

**V-Studio** is the Valiani Operating Software which allows the artwork preparation, file conversion and the .PLT, .SVG (i.e. Illustrator® and Corel Draw®) vector file importation. Conceived to expand all Valiani machines capabilities provides to the end users specific applications for different industries. A CAD for mount-board creation, a packaging design application and a crop marks detection camera utility compose the Valiani Software Suite. The tools/ material database as well as the working process are managed by dedicated apps, all of them designed to make the work flow faster and guide operators step by step.

\*Compatible with Windows O.S..

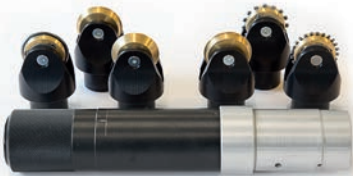
**M3** is the optional software for the packaging industry, which can be integrated with all Valiani machines. m3 provides an archive of **500 parametric designs** for folding carton and corrugated cardboard. The ECMA and FEFCO international codes are fully featured, accompanied by other custom structures widely used in the industry. The 3D Presenter is the environment for virtual prototyping of packaging and POP/POS displays through realistic 3D modeling is available at extra cost.

\*Compatible with Windows OS

The camera management for crop marks detection is carried out by the **OptiCrop®** Software. The software has various functions: crop marks recognition and interpretation, skew print compensation and file positioning in the cutting area. **Opticrop®** is the perfect solution for quick and precise contour cuts. Crop marks plug-in are available for both Illustrator® and Corel Draw®.

\*Compatible with Windows OS

## Tools for the twin tool station



### Creasing Tool

With various wheels to crease folding carton and corrugated cardboard.



### Tangential Cutting Tool

Precise Multi Depth cutting tool for materials up to 3mm in thickness.



### Oscillating/Vibrating Cutting Tool

Powerful pneumatic vibrating tool for cutting various strengths of materials up to 20mm (0.78")

## Technical

### Optima V 80

Cutting Area:

**1230 x 800 mm (48" x 32")**

Width 1830mm (71.6")  
Depth 1430mm (56.2")  
Height 1200mm (47.2")  
Weight 170 kg. (375 lbs)

### Optima V 160

Cutting Area:

**1230 x 1600 mm (48" x 63")**

Width 1830mm (72")  
Depth 2230mm (88")  
Height 1200mm (47.2")  
Weight 190 kg. (419 lbs)

### Max speed

430mm (17")/sec.

### Acceleration

1 m/s

### Power requirements

Single phase 110V/60Hz/10A, 220V/50Hz/10A.

### Air requirements

6 Bar/90 PSI

### Connectivity

USB 2.0

### Data Buffer

External PC

### File formats

.SVG and .PLT

### Tool change

Manual

### No. Tools

2 slots

### Cutting capacity

20mm - 3/4" (with oscillating tool head)

### Locking system

Pneumatic clamp and air suction

**Standard configuration:** Optima cutting machine, tangential cutting tool, suction pump, base & V-Studio



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