

# Optima *V*

Twin Head Digital Cutting Machine



Cut upto  
**20 mm**<sup>\*</sup>  
thickness

\*with optional oscillating tool head

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The **Optima V** flatbed cutting plotter, with its high precision, robust, mechanics and reasonable starting price, is the answer for all applications in the offset/digital printing industries, signage, display and in the packaging market. Its an ideal solution for short-run sheet die cutting, packaging prototypes, mockups, signs, labels, decals and much more.

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

The **Optima V**, with a combined vacuum assisted table and a new robust 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, Forex®, PVC and polycarbonate  
Rubber & Crystal Decoration Stickers  
Foam-board, Gator-board and Mount-Board  
Honeycomb, Corrugated, Folding and Fluted Core Board  
Leather and Fabrics**

\*with optional oscillating tool head

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

**Apparel: Clothing /Fashion**



**Digital Printers**



**Card Finishing/Packaging**



With **two configurable tool stations**, the Optima V is a medium-format professional cutting plotter capable of: Cutting, Half-cutting and Creasing; V-Cut; Drawing and Oscillating Cutting up to 20 mm (0.78") 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 that depend on the blade length and type. This ensures that you achieve the highest quality and precise cut for all materials.

**Tool Heads:** for the twin head configurable tool station



**Creasing Tool**

With various wheels to crease folding carton and corrugated board.



**Tangential 90° Cutting Tool**

Precise Multi Depth cutting tool for materials of 0 up to 5mm (0.19") in thickness.



**Oscillating/Vibrating Cutting Tool**

Powerful pneumatic vibrating tool for cutting various tough and delicate materials up to 20mm (0.78")

**Technical**

**Optima V 120**

Cutting Area:

**1230 x 800 mm (48.4" x 31.5")**

Width 1820mm (71.6")  
Depth 1900mm (74.8")  
Height 1200mm (47.2")  
Weight 170 kg. (375 lbs)

**Optima V 160**

Cutting Area:

**1230 x 1600 mm (48.4" x 63")**

Width 2220mm (86.6")  
Depth 1900mm (74.8")  
Height 1200mm (47.2")  
Weight 190 kg. (419 lbs)

**Max speed**

**Acceleration**

**Power requirements**

**Air requirements**

**Connectivity**

**Data Buffer**

**File formats**

**Tool change**

**No. Tools**

**Cutting capacity**

**Locking system**

430mm(17")/sec.

1 m/s

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

6 Bar/90 PSI

USB 2.0

External PC (Not Included)

.SVG e .PLT

Manual

2 slots

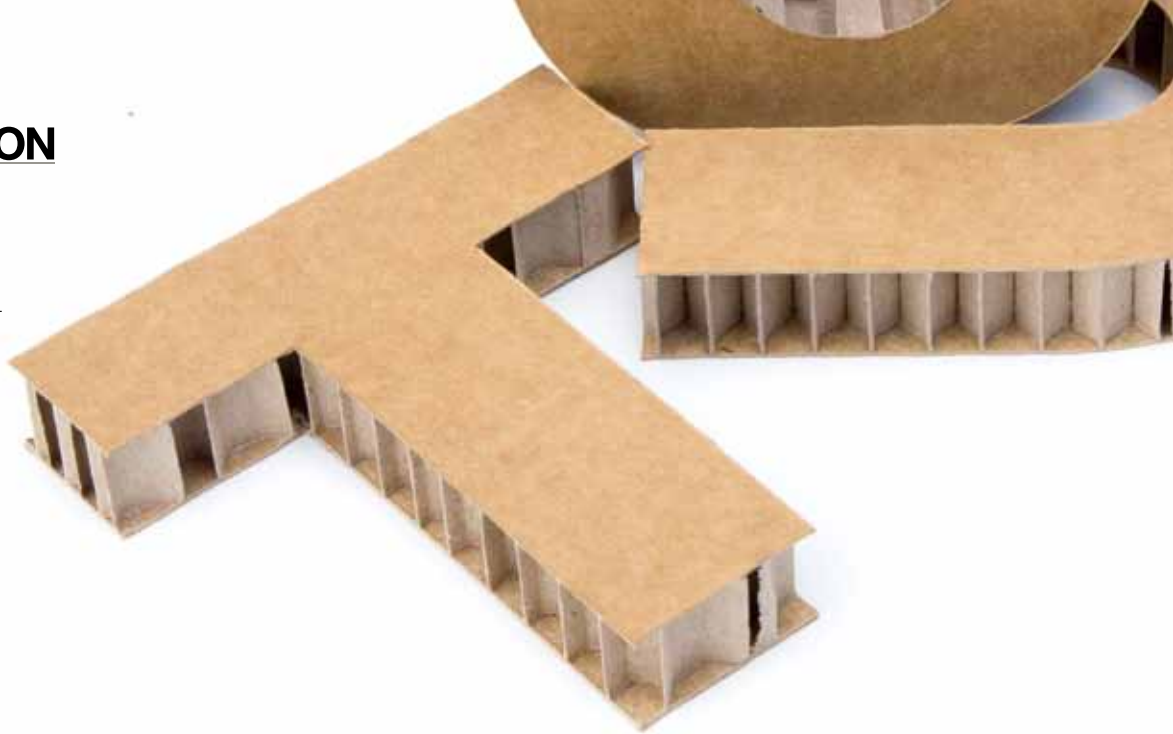
20 mm (with oscillating tool head)

Pneumatic clamp and air suction

**Standard configuration:** Optima cutting machine, one cutting tool (for the twin configurable tool station) , suction pump & V-Studio



With over 40 years' experience in building cutting machines and hundreds of machines sold all over the world, makes of Valiani a reliable partner.



**V** STUDIO

**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.. Contact your local reseller for PC specs.

**m<sup>3</sup>**

**Packaging Creator**

**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

**opti crop**

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



**Drawing Tool** is also available for the twin configurable tool station. This tool is ideal for apparel cutting jobs.

\*The Valiani company is constantly reviewing and refining its products and consequently the product delivered may vary from the specifications shown. Whilst the specifications shown are accurate at time of printing please check with your distributor, or the Valiani company, for any changes made subsequent to publication. The Valiani company reserves the right to make changes as considered necessary.