

# Nexus

Reach your next level

valiani  
your perfect cut



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Reach your next level



Cut up to  
**3/16"**  
thickness

## ADVANCED SYSTEM. ADVANCED FEATURES. SUPERIOR ENGINEERING

The **Nexus** generation of mat cutting machines represent the latest evolution of years of experience in developing and building equipment for the framing industry. Thanks to the robust frame structure and the possibility of customization through a wide range of tools, **Nexus** is a machine that can be used to meet different production standards and applications. **Nexus** reduces your work time by more than 50% compared to a manual work, improving precision and consistency, but above all unleashing your creativity.

### Reliability, Quality and Longevity

The **Nexus** is assembled with high quality components and reliable technology; it features; honey-comb aluminum cutting table, high-resolution steppers motors, heavy-duty rails and steel bearings. Integrated with a low cost maintenance, the **Nexus** assures the best investment in long terms.

### Versatility

Totally compatible with the Interchangeable Heads® system, the **Nexus** is the ideal choice for all customers looking for a flexible product, capable to cope with today's needs at a lower cost. The wide range of tools available make of **Nexus** a versatile product able to perform 90°, 45° and 40° cuts, creasing and perforating process, deboss and draw; ensuring your CMC **will never become obsolete** - providing a cutting option well into the future.

Cut & Draw

100% Yield  
=  
0 Waste

Long  
running



#### Work flow

The **Nexus** is available in two sizes, both supplied as standard with a multi positional stand. Equipped with an operating software, totally developed by Valiani, it releases the maximum operability with specific apps capable of speeding up the work flow.

#### Applications

The **Nexus** can be effectively used on;  
**4 - 8 - 12 ply mat-boards**  
**Foam-Board (up to 3/16)**  
**Gator board**  
**Corrugated cardboard**  
**Grey Chip board**



m<sup>3</sup>

STUDIO

opti crop

**Affordable for custom frame shops**  
**Superior cut quality and durability**

**Versatile, robust and easy to use**  
**Increase your productivity**

### Why choose Valiani?

Cutting quality and precision  
 Versatility and Reliability  
 Best quality/price ratio



The Machine is equipped with a Plug & Play **Interchangeable Head** system and a fixed pen holder.. Powerful magnets allow to quickly hold cutting tools and work without any interruption or tools setup.



**Cutting Capability.** Manual blade depth adjustment with increments of just 0.1 mm (1/32") provides much better quality control when working with various materials and thickness.



The **button clamp system** allows to trim the material right to the edges, optimizing the material yield and leaves **no more marks** on your matboard!



Head's Assembly Adjustment. Nexus comes as standard with an additional knob to set the height of the tool to prevent denting (kiss-cut) the material.



**Mount Board.** Single, multiple apertures and grooves cuts. Double or triple pre-assemble mat-boards cut.



**Packaging.** Packaging, displays, folders and mock-ups creation. \*Requires M3 Packaging Software with brown packaging head, sold separately.

### Technical Data

#### Nexus 150

Cutting Area:

**1515mm x 1015mm (60" x 40")**

Width	2080mm (82")
Depth	1460mm (64,5")
Height	1790mm (70,5")
H. (Flat)	1100mm (43,3")
D. (Flat)	1594mm (62,3")
H. (Up-right)	2050mm (80,7")
D.(Up-right)	908mm (35,8")
Weight	145 kg. (319 lbs)

#### Nexus 120

Cutting Area:

**1215mm x 815mm (48" x 32")**

Width	1780mm (70")
Depth	1260mm (49,6")
Height	1590mm (62,5")
H. (Flat)	1100mm (43,3")
D. (Flat)	1394mm (54,9")
H. (Up-right)	1850mm (72,8")
D.(Up-right)	800mm (31,5")
Weight	125 kg. (275 lbs)

<b>Max speed</b>	500mm(19.5")/sec
<b>Power requirements</b>	Single Phase 110V or 220V/60Hz/10A
<b>Air requirements</b>	6 Bar/90 PSI
<b>Connectivity</b>	USB & Bluetooth
<b>Standard configuration</b>	Ultra BC Cutting machine Multi positional stand One cutting Tool Fixed pen head tool V-Studio

## Accessories



### V STUDIO

**V-Studio** is the Valiani Operating Software which allows the artwork preparation, file conversion and the .PLT, .SVG (i.e. Adobe 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 (optional) 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.



### 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 (**1.700 parametric designs** with **M3-Art** version). 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 included without extra cost with **M3-Art** version.

\*Compatible with Windows O.S.

### opti@crop

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



Valiani cutting machines can be effectively used on all kind of mat-boards, regardless thickness, consistency and usage, all up to 5mm (3/16).



The **interchangeable heads** technology consists of a quick-change tool system (Valiani International Patent) able to expand all Valiani machines productivity and versatility. Thanks to a powerful magnets group all tools can be quickly swapped with no need for further calibration. A wide variety of separate tools are available; 90°, 45°, 40° cutting tool, creasing and perforating tools, embossing/debossing tool and a pen holder.



The **MatStylus Deluxe** is a tool that allows the user to perform writing and drawing with any Valiani machine. This tool is supplied with 3 multiple tow-part pen holders of different sizes that can accept various felt tip pens or pencils. Ink caps are included with the MatStylus kit. Upon request a plotter-pen cartridge holder is also available.



The set of **Creasing Tools** consists of one head with a selection of wheels of various geometry that have been developed for the packaging market or for anyone with needs to crease folding carton, flute cardboard, corrugated cardboard and polypropylene.



Valiani cutting machines can be used as a multi functional device, allowing to shape a wide range of alternative products.



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