

# INVICTA SERIES 80/120/150

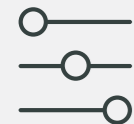
## COMPACT CUTTING MACHINE WITH INVINCIBLE VERSATILITY

Invicta is a very compact yet powerful machine fitting every working environment. With its unique features to cut from soft to rigid media and its extreme versatility, the operator can virtually make unlimited projects up to 20mm thick. Invicta guarantees a very high degree of precision matched with cutting and creasing quality almost equal to that of the traditional die-cutting process. Invicta is also highly demanded in the fashion industry, allowing to cut and draw on textile and paper patterns. Extremely recommended for a lot of applications, from **motorbike decals** to **road signs**, from **ejection rubber** to **Offset coating blankets**.



### ALL YOU NEED TO START A BUSINESS

With multiple optional cutting tools, as well as creasing and drawing tools, Invicta is ideally suited for cutting a wide range of materials. Our proven mechanical design and easy-to-use software ensure a quick solution to time-consuming tasks.



### COMPACT, VERSATILE AND EASY-TO-USE

Invicta comes in different sizes, all with vacuum table and pneumatic clamping system; a **camera for crop mark detection** is also considered in the machine bundle. The sturdy design of the machine allows to cut precisely and efficiently almost any material. A bunch of tools are available to personalize the configuration. OptiCrop software is listed as an optional item.



### CHANGE THE TOOLS IN 8 SECONDS

The possibility to easily swap one tool with another one enables the user to create the perfect configuration for various cutting requirements.



For more information scan the QR code or visit our website at [www.valiani.com](http://www.valiani.com)

SINGLE  
INTERCHANGEABLE  
HEAD



## Materials

- Folding Carton
- Corrugated Cardboard
- Vinyl and magnets sheets
- Reflective films sheets
- PVC/FOREX/Foam board
- Laminated sheets
- Polymers and rubber
- Leather and Fabrics
- Paper Patterns
- Honeycomb Cardboard
- ...and a lot more

## Main Applications

- Die-Cutting of Digital and Offset Prints
- Packaging prototypes and sample making
- Photo Albums
- Street and Business Signage
- Offset Varnishing Plates and Blankets
- Architectural and plastic models
- Reflective films / Stickers and Decals / Vinyl
- Motorbike Decals
- Membrane keyboards
- Patterns for Shoes and Fashion Industry

...and many more



## Invicta

is equipped with a vacuum table, divided into multiple zones to optimize the suction when media is smaller than the working area. Invicta comes in different sizes, all with high-res camera for print cropmark detection software\*.

\*Crop mark detection software is optional

# Invicta Series

## SAVE SPACE WITH INVICTA 80

it is so compact that it fits into any workspace and adapts to most popular digital printing formats



### Tools available

Invicta can be equipped with all tools compatible with the following tool holders:

- Multifunctional Tool Holder

- Versa-Tool Holder
- Fixed Tool Holder



MTH



FTH



VTH



## Technical Data

Invicta Models	80	120	150
Cutting Size	610x810 mm (24"x31")	1220x813 mm (48"x32")	1524x1016 mm (40"x60")
Width	1180 mm (46,4")	1780 mm (70")	2080 mm (82")
Depth	1394 mm (54,8")	1394 mm (54,8")	1594 mm (62,3")
Height	1100 mm (43,3")	1100 mm (43,3")	1100 mm (43,3")
Weight	140 kg (308 lbs)	290 kg (640 lbs)	320 Kg (683 lbs)
Max Cutting Speed	400 mm (16") / Sec		
Acceleration	0,5 m/s <sup>2</sup> (19,7 in/s <sup>2</sup> )		
Power Requirements	Single Phase - 100/240V 50/60Hz 10A - 1.7 KVA		
Air Requirements	6 BAR (3,5 CFM) 8 BAR (5,3 CFM) with Oscillating tool		
File Format	SVG, .PLT, .DXF, .CF2, .HPGL, .XML, .PDF		
Tool Change	Manual		
Tools Available	90°, 45°, 40°, Embossing, Creasing, Drawing tool, Oscillating tool and Kiss cut tool		
Tool Holders	1 + 1F		
Connectivity	USB 2.0/Bluetooth		
Data Buffer	External PC		
Media Holding System	Vacuum bed and Pneumatic Clamping System		
Fixed Tool	Pen (Optional)		
Cutting Capacity	0.1 > 5 mm (0.20") with Tangential cutting tool 0.1 < 20 mm (0.79") with Oscillating tool		
Repeatability	≤0.1 mm		
Supported OS	Windows 7, 10, 11		
CropMarks Rec.	Camera (Included) + Software (Optional)		

## PRECISION, EASE OF USE AND ENDLESS CREATIVE POSSIBILITIES

Invicta can be customized into different configurations depending on the tools chosen and can cut materials with thicknesses up to **5 mm (3/16")** with tangential cutting tool or up to **20 mm (3/4")** with oscillating knife. The Oscillating cutting knife will bring you to the next level. It will cut through many different materials from paper to rigid material or from fabric to leather.



Magnets sheet



Folding carton

## FEATURES

- **Single-head** system capable of a tool changeover in less than **10 seconds** without any mechanical adjustment.
- Invicta may be equipped with Opticrop Software for crop marks detection and print distortion adjustment.
- High versatility die-cutting solution at an affordable price.



# TOOLS AND HOLDERS

The combinations between Tools and Holders make Valiani flatbed cutting machines the ideal solution for many applications and materials.



## HOLDERS

All Valiani cutting machines are based on a modular tooling system that enables to assemble different tools from a set of common building blocks. Thanks to this system, users can quickly assemble tools for different finishing process. This reduces the time of tool changeover and boosts productivity.



## TOOLS

Valiani has an array of tools that fit onto a multifunctional tool holder to enlarge the range of cutting process available on some models such as Oscillating knife, V-Cutting, Kiss-cutting and many others. Valiani tools grant the users both **Modularity** and **Quick-Change** capability. This versatility represents a gain in the machining capacity, providing tangible results and measurable return on investment (ROI).



## INTERCHANGEABLE HEADS (TO BE COMBINED WITH VERSATOOL)

Valiani has also an array of interchangeable heads\* for their entire line of flatbed cutters. These heads are retained and positioned on the cutting head assembly by means of several small, yet powerful magnets, which make locking faster and hardware unnecessary. A dedicated wedge-fork is supplied with the heads which makes easy, safe and fast the head change. Each tool head is color-coded to help simplify recognition at a glance.








**\*INTERNATIONAL PATENT**

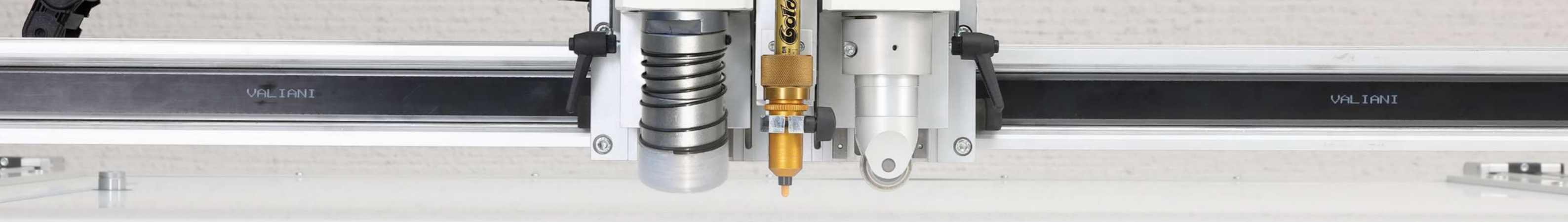


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## LEGEND

Tool Holders		
 <b>MTH</b> Multifunctional Tool Holder	 <b>VTH</b> Versa-Tool Tool Holder	 <b>FTH</b> Fixed Tool Holder
Machines		
 <b>IN</b> Invicta	 <b>OP</b> Optima	 <b>IG</b> Integra
 <b>OM</b> Omnia		



# Holders

## Multifunctional Tool Holder (MTH) IN OP IG OM



The Multifunctional Tool Holder is designed to fit many different tools. The simplicity of this tool holder makes it very easy to change from one tool to another. A simple locking system allows the operator to change tools anytime the cutting process requires, in less than 10 seconds. This feature translates into the possibility of having countless tools on the machine regardless of the number of the tool holder modules. The Multifunctional Tool Holder comes as standard with a quick and easy manual adjustment to set blade depth or creasing pressure (automatic adjustment on the integra). Holder can be operated in pressure or position mode.

- **Quick Tool Change and No calibration needed**
- **High Precision and quick Adjustment Setup**
- **Long Life and Heavy-Duty Equipment**

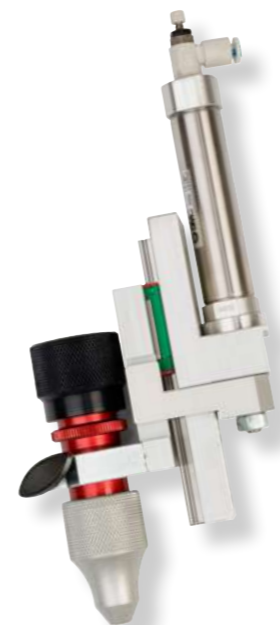
## VersaTool Holder (VTH) IN OP IG OM



The VersaTool is the essence of the **All-in-One tool**, it is designed to fit all the interchangeable cutting heads. The VersaTool, in combination with the right cutting heads, is ideal for half cut and straight cut on varnishing plates / rubber blankets, on any type of cardboard and 45°V-cut on chip grey boards. Thanks to the **patented magnets system**, tool change timing is drastically reduced, safeguarding cutting precision and increasing machine's productivity. **VersaTool Holder** can be equipped with 40°/45° beveled cutting heads, embossing/debossing, creasing, and 90° half-cut and through-cut head.

- **Quick Tool Change and No calibration needed**
- **Versatility and reliability**
- **Limitless expandability / No Obsolescence**

## Fixed Tool Holder (FTH) IN OP IG OM



On Valiani machines it is possible to mount a fixed pen tool holder in addition to the ones provided by default. This tool holder supports every type of pen, pencil and felt-tip pen, thought to draw and write on many materials including cardboard and paper patterns for apparel market.





## Powerful Pneumatic Oscillating knife (PPO)



For thick honeycomb cardboard, composite foam, coroplast, forex and a lot of many more materials. The oscillating cutting tool is a pneumatically powered tool, ideal for cutting heavy materials up to 20 mm (3/4")\* but it can also handle thinner and softer ones. The combination of the air pressure strength and the 8 mm stroke make it suitable for a wide range of applications.

- **Powerful and low-maintenance pneumatic tool**
- **8 mm stroke/ 9.000 Bpm**
- **20 mm (3/4") cutting capacity\***
- **Compatible with MTH**

*Blade type:*  
oscillating  
round shank  
blades

\*Depending on material rigidity

IN OP  
IG OM

MATERIALS



Honeycomb board



Pvc/Forex/Foam board



Coroplast board



Rubber Gaskets

## Multipurpose Tangential knife (MTT)



For folding carton and corrugated cardboard, vinyl, thin plastics and a lot more materials. The tangential cutting tool is a precise multi-depth tool, capable to handle material up to 5 mm (3/16") thick. The tangential knife allows to cut at full speed releasing very high-quality finishes. The tool is always **included** as standard on all machines except Invicta (optional).

- **High-quality finishing**
- **Versatile, handles most thin materials**
- **5 mm (3/16") cutting capacity**
- **Compatible with MTH**

*Blade type:*  
Pulling flat  
blades

IN OP  
IG OM

MATERIALS



Folding Carton and Paperboard



Micro Corrugated board



Crystal Adhesives for Motorbike Decals



Grey chip board

## High-speed Pneumatic Oscillating knife (HPO)



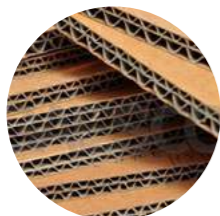
Ideal on textile, foam, polyurethane and corrugated materials. The High-speed Oscillating cutting tool is a pneumatically powered tool that combines performance with extreme precision. The 8 mm stroke and the high oscillating frequency make it capable to process softer and thinner materials at **higher speed**, reaching excellent quality levels at silent pace.

- **High performance**
- **8 mm stroke/14.000 Bpm**
- **20 mm (3/16") cutting capacity on very soft materials like foam board**
- **Compatible with MTH**

*Blade type:*  
oscillating  
flat blades

IN OP  
IG OM

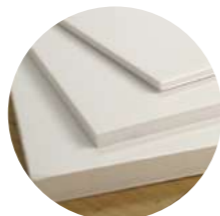
MATERIALS



Multi-flute Corrugated board



Textile and Leather



Foam board



Micro Corrugated board

## Kiss-cut Tangential knife (KCT)



The Kiss Cutting Tool is a tool designed to peel the top-layer of thinner materials. Thanks to its mechanically controlled blade, it can perform cuts with extreme accuracy. Equipped with a blade guide, the tool provides consistent and precise control over the cutting depth for various applications, from vinyl stickers to labels and decals.

- **Type: Spring-controlled pressure**
- **Control: Manual, rotating disc on tool holder**
- **Pressure: Springs up to 120g, 650g and 1800g**
- **Blades: Tangential**

IN OP  
IG OM

MATERIALS



Paper <200gr



Adhesive vinyl Sandblast



Adhesive PVC Banner



Protective film



## Universal Creasing Tool (UCT)

The Universal creasing tool is a multi-use tool that comes as standard with 9 wheels with creasing and perforating functions. The tool is able to crease a wide variety of folding and corrugated cardboard, polypropylene, single and double flute sheets, etc.. Wheels can be easily changed thanks to the magnetic holding system.

- **Adjustable creasing pressure**
- **Clean and precise creases**
- **Wheels easy mount**
- **Compatible with MTH**

### WHEELS AVAILABLE

- *Set of creasers for Folding Cardboard (3 pcs)*
- *Set of creasers for Corrugated Cardboard (3 pcs)*
- *Set of perforating wheels (3 pcs)*

Ø 16 - Ø 32 mm

IN OP  
IG OM

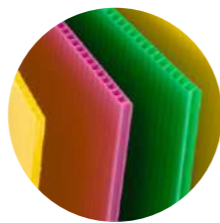
MATERIALS



Folding Carton and Paperboard



Micro Corrugated board



Polypropylene Honeycomb



Archival Corrugated Board

## Multi-Wall Creasing Tool (MCT)

The 4 Multi-Flute creasing wheels have been designed to handle double and triple flute thick corrugated board. They work in combination with a special creasing tool to be bought separately.\* The larger diameter of the creasers allows to produce fine creases both with and against the corrugation, Multi-Wall Creasing Wheels can be easily changed thanks to the magnetic holding system.

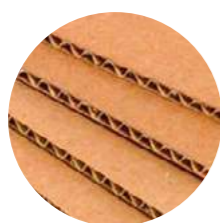
- **Wheel easy mount**
- **Clean creases on double and triple wall corrugated board**
- **Adjustable creasing pressure**

\*Multi-wall creasing tool and wheels are optional upon request, not included within the above Universal Creasing Tool.

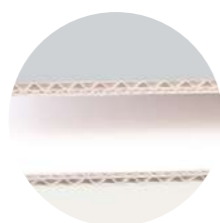
Ø 60 mm

IN OP  
IG OM

MATERIALS



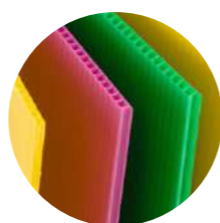
Single-Wall Corrugated Cardboard



Double-Wall Archival Cardboard



Triple-Wall Corrugated Cardboard



Polypropylene Honeycomb Coroplast



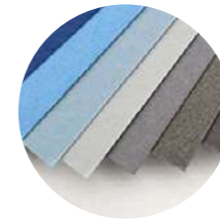
## Plot Drawing Tool (PDT)

For those needing to write part numbers or job names on items prior to cutting. The Plot Drawing Tool is available for the tool holder body and it takes standard pen cartridge ball point. This tool is also ideal to label materials such as cardstock with text, marks or symbols for the apparel industry.

- **High speed**
- **Quick pen change**
- **Ideal for text or marks on cardstock**
- **Compatible with MTH**

IN OP  
IG OM

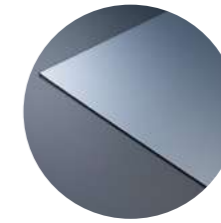
MATERIALS



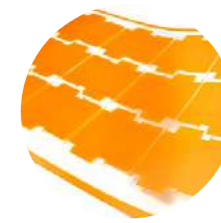
Folding Cardstock



Any cardstock for apparel patterns



Polycarbonate sheet



Polyester-based Varnishing Plates

## V-Cut and Bevel Tool (VBT)

The V-Cutting tool is a specific tool for creating beveled edges and folding thicker materials. The tool is ideal for producing three-dimensional structural designs made of honeycomb cardboard, foam-core materials or light coroplast display board. The tool has multiple blade holders\* to produce bevel cuts at 15°, 22.5°, 30° (optional) and 45° (included). Thickness capacity ranges between **6 mm** (0,23") and **16 mm** (0,62").

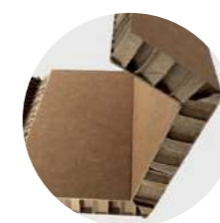
- **Heavy-duty**
- **For display racks and large-sized cardboard structures**
- **Variable angle\***
- **Compatible with MTH**

\*15°, 22.5°, 30° blades are optional upon request, not included within V-Cut Tool.

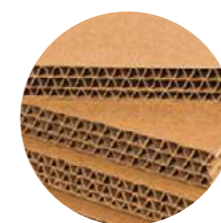
\*Available on Optima and Integra only

OP IG

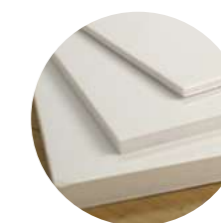
MATERIALS



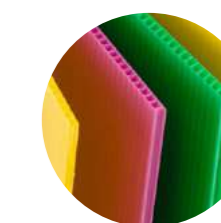
Honeycomb board



Triple-Wall Corrugated



Foam board



Light Coroplast





## Routing Tool (RT)

The **1 kW** router can handle the processing of the most common rigid supports used in the graphic and sign industry including rigid PVC/Forex, acrylic/plexiglass, Dibond/aluminum composite panels and soft & hard woods up to 13 mm (0,5") thick; allowing to produce a perfect finishing of printed materials and much more. The routing bit shank reaches a maximum of 8 mm (0,315") in diameter.

- **Speed range 5.000 - 60.000 rpm**
- **Routing bit tool change: manual wrench**
- **Max diameter shank routing bit 8 mm (0,315")**

IG

MATERIALS



Aluminum composite



Soft and Hard Woods/MDF



Plexiglass/Acrylic sheets



Pvc/Forex sheets

# Interchangeable Heads\*

To be combined with VersaTool

IN

OP

IG

OM



## White 90° - Straight Cut and Half-Cut (IHW)

The 90° White head has been developed to cut a wide range of materials up to a thickness of 6,3 mm (1/4"), as well as to perform half cut. It comes as standard with one pressure roller and a teflon foot. It is generally used to cut grey chip board to create lids and slipcases for luxury packaging and extremely effective on offset rubber and varnish blankets.

- **Multi-purpose cutting head**
- **Half-cut tool on grey chip board**
- **Clean & precise cutting of varnish and rubber blankets**
- **Compatible with VersaTool Holder**

\* PATENT

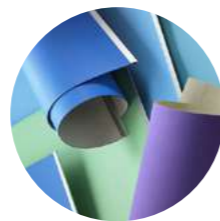
MATERIALS



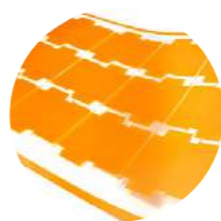
Grey chip board sheets



Luxury packaging board



Varnishing plates & rubber blankets



Polyester-based Varnishing Plates

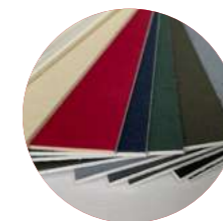


## Green 40° - Bevel Cut (IHG)

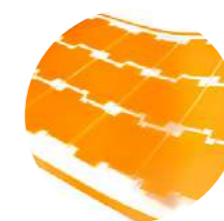
The 40° Green head produces a bevel cut at 40° angle, ideal for both cutting small shapes and traditional bevel cutting. It cuts up to 2.3 mm (0,09"). Recommended for mat-board and polyester-based offset varnishing plates.

- **Ideal bevel cutting tool for mat boards**
- **Intricated design cut on polyester based varnish plates**
- **Compatible with VersaTool Holder**

MATERIALS



Standard mat-board up to 2.3 mm (6ply)



Polyester-based Varnishing Plates



Suede Mat-board



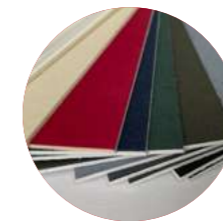
Thin museum archival board

## Blue 45° - Bevel Cut (IHB)

The 45° Blue head produces a bevel cut at 45° angle. This head can cut up to **5 mm (3/16")** thickness and performs V-Cutting as well. This application is highly demanded in the field of luxury packaging and more precisely to create rigid boxes. Excellent results are also obtained while cutting grey chip board and foam board.

- **More pronounced bevel cut on mat boards**
- **Ideal for high-end luxury boxes**
- **Fine edges on V-cuts**
- **Compatible with VersaTool Holder**

MATERIALS



Standard mat-board



Foam board up to 5 mm (3/16")



Grey chip board up to 5 mm (3/16")



Luxury packaging board



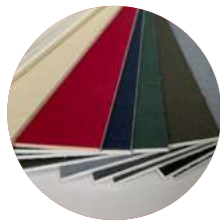
## Purple - Embossing / Debossing (IHP)



The Embossing/Debossing Purple head includes 4 different tip types and it is used to create thin decorations by applying pressure on different materials. Any shape or design can be elegantly embossed/debossed on the surface of the material depending on its rigidity and consistency.

- Give your design another dimension
- Raise the surface of your design
- Ideal for braille applications
- Compatible with VersaTool Holder

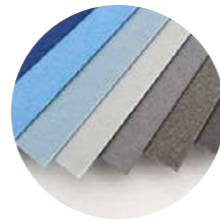
### MATERIALS



Standard mat-board



Coated and laminated paper



Folding Cardstock



Braille characters



## Grey 90° - Straight Cut (IEH)



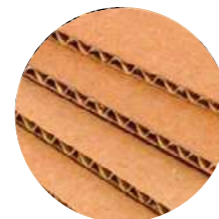
The 90° Grey head has been developed to perform a straight cut on a wide range of materials up to a thickness of 5 mm (3/16"). It releases a perfect finishing results on folding and thin corrugated cardboard, vinyl adhesives, thin plastics and more. It has the same function of the multipurpose tangential knife (MTD).

- Universal straight cutting tool
- It comes as standard with a metal and teflon foot
- Compatible with VersaTool Holder

### MATERIALS



Grey chip board



Micro Corrugated board



Heavy cardstock for apparel patterns



Crystal Adhesives for Motorbike Decals



## Brown - Creasing/Scoring (IHBr)



The Creasing Brown Tools set consists of one head with **9 wheels** of various geometry, which have been developed for the packaging market for those who need to crease cardstock, flute board, corrugated board and polypropylene. It has the same function of Universal Creasing Tool (UCT).

- Adjustable creasing pressure
- Clean and precise creases
- Wheels easy mount
- Compatible with VersaTool Holder

### WHEELS AVAILABLE

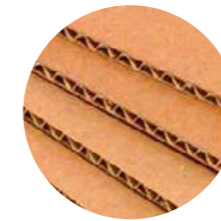
- Set of creasers for Folding Cardboard (3 pcs)
- Set of creasers for Corrugated Cardboard (3 pcs)
- Set of perforating wheels (3pcs)

Ø 16 - Ø 32 mm

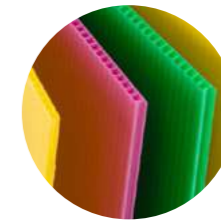
### MATERIALS



Folding Carton and Paperboard



Micro Corrugated board



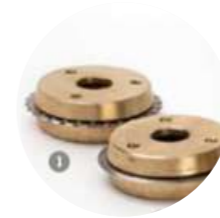
Polypropylene Honeycomb



Archival Corrugated board

## Brown - Creasing Wheels (Part of IHBr)

### WHEELS



1

Perforating tool: Serrated cut wheel, Ø 32 mm, 2-1 mm step.



2

Blade tool: Metal round-knife wheel, Ø 32 mm diameter.



3

Perforating tool: Serrated cut wheel, Ø 32 mm, 3-1 mm step.



4

Scoring tool: 32 mm diameter, 2 mm round crest.



5

Scoring tool: 32 mm diameter, 1.5 mm round crest.



6

Scoring tool: 32 mm diameter, 1 mm round crest.



7 Scoring tool: 16 mm diameter, 0,7 mm round crest.

8 Scoring tool: 16 mm diameter, 1 mm round crest.

9 Scoring tool: 16 mm diameter, 1,5mm round crest.



# Fixed Tools



## Multipurpose Drawing Tool (MDT)

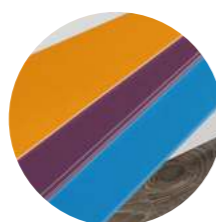
On every machine it is possible to mount a fixed tool as a third or second optional tool depending on the machine model. The Multipurpose Drawing tool is very user-friendly since it takes standard drawing tools such as felt-tip pens and ballpoint pens.

- Available for Invicta, Optima, Integra and Omnia
- Precise on any type of writing or decoration
- Works with any type of pen
- Compatible with Fixed Tool Holder

## MATERIALS



Mat-board



Cardstock



Any cardstock for apparel patterns



Micro and Double Corrugated board



## OUR PEN CARTRIDGES CAN FIT ALMOST ANY PEN AVAILABLE ON THE MARKET

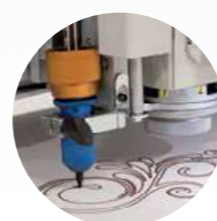
## PEN CARTRIDGES (INCLUDED)



**1 Bronze/Gold:**  
Upper and lower diameter 15-8,5 mm



**2 Black/Red:**  
Upper and lower diameter 8,5-5,5 mm



**3 Orange/Blue:**  
Upper and lower diameter 11-5,8 mm

# SOFTWARE AND PROGRAMS

What makes Valiani special is the ability to integrate innovative and extremely easy-to-use software solutions.

You can choose among different software and applications to make your Valiani perform at its best.



## V-STUDIO

V-Studio is the Valiani desktop application software, developed to improve the man/machine experience. Thanks to an optimized design environment and equipped with innovative tools, users will be able to cut any .SVG, .PDF and .PLT, as well as .CFF2 and DXF. This user-friendly software makes it easy producing customized packaging models\* and perform contour cuts\*\* on pre-printed materials. With the intuitive user interface and powerful toolset, anyone can cut a job like a professional after a short training. (included)

\*Packaging models are within the M3 or M3 Art software.  
\*\* Contour cut with Opticrop Software.



## OPTICROP

OptiCrop is the software that allows you to manage contour cut on pre-printed images and create endless application. Used in conjunction with a high-resolution camera, it allows you to identify crop marks, realign graphics to match them and adjust the print skew. (optional)



## M3 AND M3 ART

M3 and M3 Art software are the perfect way to start producing boxes and POP/POS Displays. Using their large parametric library, that includes models for folding carton, corrugated board, honeycomb board and rigid grey board, you have virtually endless possibilities. (optional)

# V-STUDIO

## THE SIMPLEST WAY TO MAKE THE BEST FROM YOUR VALIANI

### INCLUDED



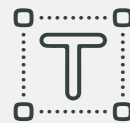
#### FULL CONTROL OVER YOUR VALIANI

You can set plotting process, tools, pressure and speed, overcut, multi-cut, blade offset, mirroring, cut selection and many others.



#### SUPPORTING MOST COMMON GRAPHIC SOFTWARE

Works perfectly with Adobe Illustrator or Corel Draw through .SVG or .PDF file format, CAD software through .DXF file format and last but not least most of the Packaging CAD through .CFF2 file format. Other file formats for importation from most popular graphics R.I.P software available.



#### CONTOUR CUTTING

Easy adds crop marks over your print with a script for Adobe Illustrator and a Macro for CorelDraw, recognizes different plotting process through predefined color strokes and allows new pairing when needed, a colors swatch is also available for both graphic software.



#### DETECTING CROP MARKS IN COMBINATION WITH OPTICROP

Reads crop mark of multiple sizes and shapes, including white marks on dark materials. Manages single sheet, multiple poses, or large print with multiple crop marks, as well as layers and groups to optimize cutting workflow.



#### PROTECTING YOUR BUSSINESS

Stores your machine configuration on our Cloud for easier configuration restore and prevents from losing data.



#### REASSURING

Guarantees free updates\* on V-Studio from Valiani website so that all users could always benefit of the latest features.



#### MANAGING MATERIALS DATABASE

Optimizes the software usage by storing all your materials details including their cutting parameters, relevant tools and blades, cutters or creasers.



#### UNIVERSAL COMPATIBILITY

If English is not your first language, V-Studio is available in 10 more languages which includes Italian, French, Spanish, Japanese, Chinese, Russian, Flemish, German and Korean.

\*Latest software might not be compatible with very old Valiani machines, please contact customer support before proceeding.



For more information scan the QR code or visit our website at [www.valiani.com](http://www.valiani.com)



- Fully compatible with Adobe Illustrator and Corel Draw.
- Cutting process through colors matching.
- QR/BarCode File Import.
- Integrated with most of Packaging CAD and R.I.P. Software.
- Capable to handle most common vector file formats (.SVG, .PLT and .PDF).
- VXML file format compatibility for both Output and Input.
- Available for Windows 11, 10, 8 and 7.
- Translated into 10 languages.
- Optimize cutting path to reduce working time.
- Option to cut only selected objects.
- Capable to import 2D project from most of CAD software through .DXF file format.



# M3 & M3 ART

## EVERYTHING YOU NEED TO REALIZE PACKAGING AND POP / POS DISPLAYS

M3\* and M3 Art\* software are the perfect ways to start producing in-house boxes and POP/POS Displays. Using their large parametric library, that includes models for folding carton, corrugated board and rigid honeycomb board, you have virtually endless possibilities. It is a valuable support for any graphic departments.

**m3** is a complete library of parametric models and designs, specially designed for Valiani cutting machines. M3 is structured to give the possibility to modify, resize and cut boxes, displays and other 3D objects made with cardboard and many packaging materials.

**m3 art** is a combination of features that allows graphic designers the flexibility to work directly in Adobe Illustrator using file boxes or POP / POS displays and benefiting from their parameterization.

Native M3 files can be opened in Adobe Illustrator without conversion and can be processed within the same work environment. Focusing on the visual aspect of the design process, M3 Art offers intuitive 3D prototyping and realistic visualization of the different types of material, printing and finishing. This integration allows graphic and CAD software to complement each other by increasing productivity without requiring any effort.

\* optional



For more information scan the QR code or visit our website at [www.valiani.com](http://www.valiani.com)

# m3



### M3 Library of Packaging Designs

The M3 Library of resizable packaging standards comes with approx. **600** parametric designs for folding carton, corrugated board, grey chip board and PVC. From Version 2023 on, M3 includes **50** templates for archival storage and conservation boxes.

- A parametric library available both in millimeters and inches.
- Integrated index file with sections for different materials.
- Support of the ECMA and FEFCO standard designs.
- Resizing and automatic structural modification by parameter editing.





# M3 art

## M3 Art Library of packaging design

The **M3 Art** Library of resizable packaging standards has accumulated around **2.300** parametric designs for folding carton, corrugated board, grey chip board or **luxury boxes**, rigid honeycomb board and PVC. Together with the **200** patterns of POP/POS/Displays, **the user has over than 2500** available templates. The full ECMA and FEFCO codes have been parametrized and included in the Library among many others. A parametric Library available both in millimeters and inches.

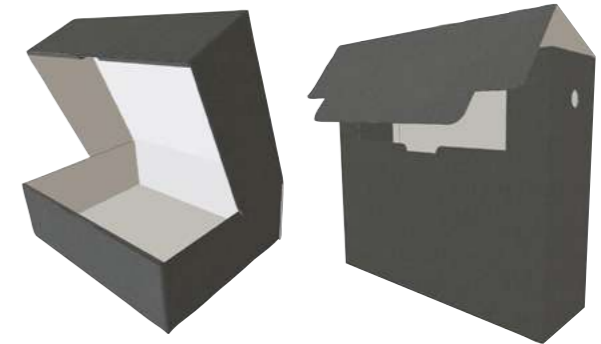


## Archival Storage and Conservation Boxes

The **M3** and **M3 Art** Library now also includes **50** templates for archival storage and conservation boxes. Mainly used for Museums and Libraries.

- Clam-shell trays
- Storage boxes
- Envelopes
- Multi-Side wraps
- Slips cases

Available for both, M3 and M3 Art.



## M3 Art Library of Displays

The **M3 Art** Library of displays and multipart structures includes around **200** resizable designs for corrugated board and rigid board materials. The 2D and 3D designs can be opened in the M3 ART software or directly in Adobe Illustrator, where graphic designers can create the graphics and generate production files with high resolution images.

- POP/POS structures come as free-standing displays, counter displays, walls, stands, furniture.
- Design recalculation takes place automatically after material thickness is changed. This minimizes design time and eliminates repetition induced errors.
- Multiple-material structures are featured.
- 3D folding sequences are integrated into display library designs for complete presentations. They can also be used for assembly instructions.

Only M3 Art.





## M3 ART Cardboard Furniture

**M3 Art** offers some unique templates for creating eco-friendly furniture, totally customizable in shape and finishes.



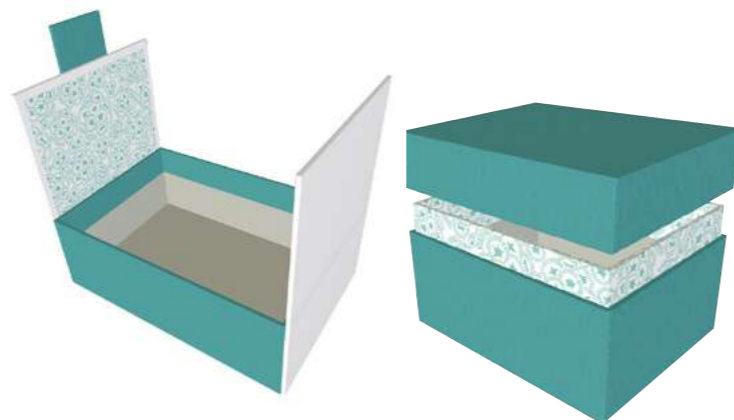
Only M3 Art.

## M3 ART Library of Luxury Boxes

M3 form version 9 supports grey board designs ideal to create **luxury boxes**. Luxury rigid boxes consist of packaging materials that have been developed and tailored to give the goods a distinctive touch. These boxes are usually made with rigid material such as grey chip board and wrapped by a card of excellent finish to make them more appealing to customers, while still serving their purpose.

Some examples of:

- Body and Lid.
- Trays with Hinged Lid.
- Magnetic Closure boxes.
- Shoulder and Neck Boxes.
- Slipcase.



Only M3 Art.

## 3D Presenter

The 3D module allows realistic visualization and proofing of the 2D structure of the artwork of **packaging** and **POP/POS displays**. At every step of the creation process, the designer can see the changes apply in 3D and share the PDF prototype with colleagues and clients.

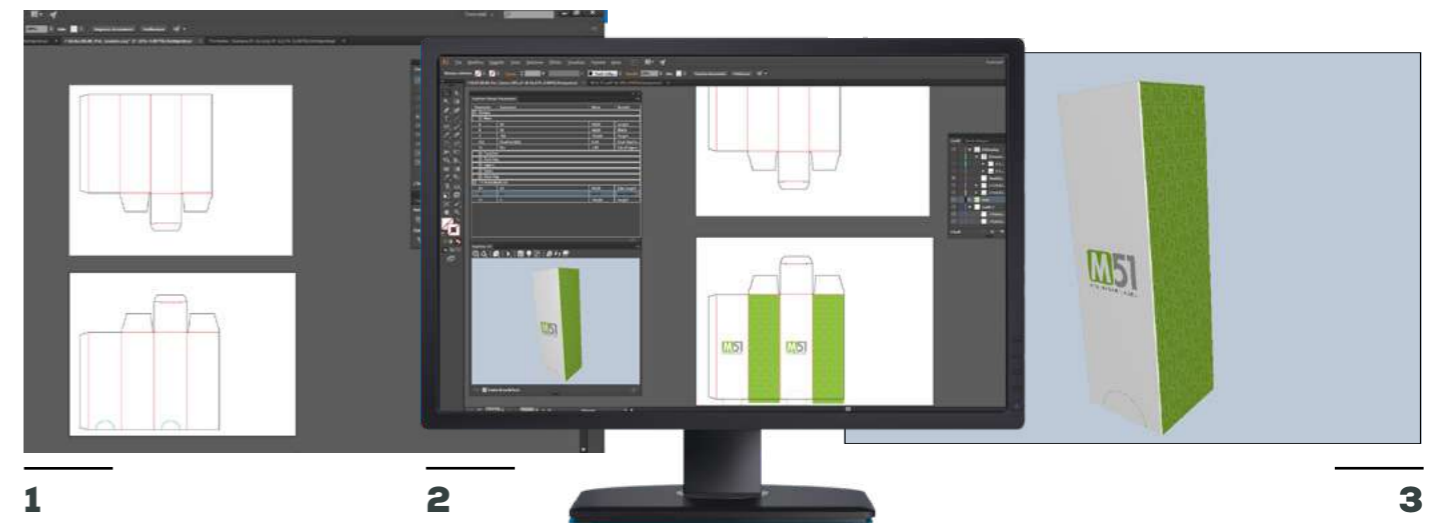
- Definition of the folding sequence, navigation and animation of the 3D model.
- Insertion of 3D parts for assembling multiple POP/POS displays and structures.
- 3D dimensioning.
- Realistic visualization of materials with their folded and cut edges.
- Generation of 3D animated PDF for easy sharing with customers.

Only M3 Art.

## Integration with Adobe Illustrator

M3 ART packaging software is integrated with Adobe Illustrator. The **plug-in** lets graphic designers easily apply artwork onto structural drawings. Verifying the results in the 3D environment happens quickly and without efforts.

Only M3 Art.



### LEGEND

1. Template can be edited and resized directly in Adobe Illustrator.
2. Graphics can be applied directly on AI and visualize through the 3D presenter.
3. A 3D animated PDF can be generated to share the final project before any cutting actions being made.

# OPTICROP

## GIVING SHAPE TO PRINTS

### ADVANCED CROP MARK DETECTION SYSTEM

OptiCrop\* is the software that allows you to manage contour cut on pre-printed images and create endless application. Used in conjunction with a high-resolution camera, it allows you to identify crop marks, realign graphics to match them and adjust the print skew.



#### CROP MARK DETECTION

Once the camera is positioned on the first printing mark, OptiCrop automatically detects the 2nd, 3rd and 4th marks, redrawing the artwork according to its position on the cutting table. Retry mode is a time saving feature that allows the user to repeat the crop mark acquisition cycle.



#### PRINT ALIGNMENT

Through the crop mark detection Opticrop is capable to straighten the cutting trace and compensate print distortion. This operation can be performed on a single sheet or even on multiple sheets. Number of crop mark determines the precision of contour cutting. 4 crops ensure maximum precision for almost any kind of distortion, whereas 2 -3 crops can be faster but with limited compensation.



#### VECTOR FILE IMPORT

OptiCrop works with .SVG (Adobe Illustrator or Corel Draw), .VXML and PDF files.

OptiCrop software works with vector files, it is possible to set-up plotting process using different pen colors on your artwork. It is also possible to use group function and layers to optimize work flow. This feature also recognizes different colors and allows the user to set-up halftone colors.

\* optional



For more information scan the QR code or visit our website at [www.valiani.com](http://www.valiani.com)



- Straightening cutting process available up to +/- 44°.
- QR code import - QR code can be used to identify the job and automatically load it. QR code can be acquired directly by the built-in machine camera.
- Barcode import - Barcode can be used to import file.
- Squared and rounded shape crop marks, whether black or even white on a dark background.
- Customizable registration crop mark sizes.
- Mirror Mode for Reverse side processing.
- Quick crop mark detection time.
- Print distortion compensation.