



Valiani Invicta | Optima | Omnia | Integra

# Valiani Tools and Functions

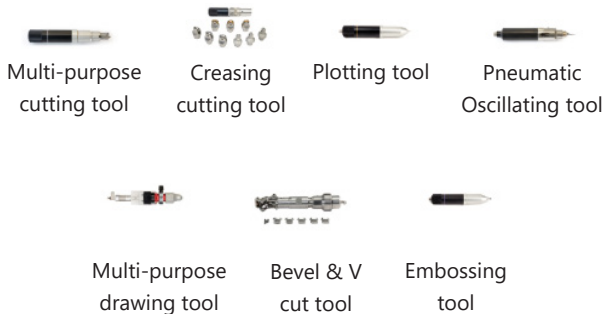
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Extend the **versatility** of your Valiani **flat bed cutter** by adding one of the many **tools available**.

## Tools

Valiani Optional tools fit onto your tool holder or on VersaTool to give it a dedicated function such as Oscillating knife, V-Cutting, Kiss cutting and many more.

Valiani Tools grant user both Modularity and Quick-Change capability. This economical versatility represents a gain in the machining capacity, improving the return on the capital invested in the machine.



## Interchangeable Head System

Valiani has an array of Interchangeable cutting Heads for its entire line of computerized cutters. Chosen as the Art and Framing Industry Awards 2008 'Innovation of the Year', these heads are retained and positioned on the cutting head assembly by means of several small, yet powerful magnets, which make locking fasteners and hardware unnecessary.

A specialized wedge-fork tool is supplied that makes removal of each head easy, safe and fast in under 10 seconds. Each tool head is color-coded and numbered to help simplify recognition at a glance.

## VersaTool - Type Interchangeable Heads

Tool Holder enables the use of all the interchangeable heads series. The main applications are Kiss-cut, bevel cut on chip boards and varnishing blankets cut. Cutting option available 40°, 45° and 90° and Embossing.



## OptiCrop camera

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 preprinted media even with print-distorted materials.



# Valiani Invicta 80 | 120 | 150

## **Flexible** and **efficient**.

The perfect solution for **prototyping**, Product **packaging** and **POS** displays.

### **Invicta**

The Invicta series, is available in 3 table sizes. The Invicta 80 with a cutting area of 820 x 620mm, the Invicta 120 with a cutting area of 1220 x 820mm and the Invicta 150 with a cutting area of 1520 x 1020mm. These machines offer an efficient, flexible, versatile, solution for prototyping and short run packaging, as it can cut material up to 5mm with a standard blade, or up to 20mm with an Oscillating Tool. The Invicta Series is equipped with a vacuum worktable, which offers higher reliability to hold the materials in place during the cutting process.

### **Key Features**

- Manual cutting depth adjustment from 0.1mm to 20mm (with optional Oscillating Tool)
- Vacuum table for holding media in place.
- Interchangeable creasing accessories for creasing / perforating a wide range of media.
- Optional crop mark detection



**Invicta**

### **Applications**

- Die-cutting of digital & offset prints
- Box and packaging production
- POP/POS display
- Street and business signage
- Offset varnishing plates
- Architectural and plastic models
- Decals and stickers
- Cardboard honeycomb furniture





# Valiani Optima V80 I 160 I 250

**Valiani cutting** tables offer refined **cutting technology** that can satisfy the most **demanding** users.

## Optima V Series

The Optima series of digital cutting machines provides the user with a large range of finishing processes such as cutting and creasing, meeting the requirements of many markets and applications in the offset/digital printing industry, display and packaging market, apparel and leather industry. It's the ideal solution for short/medium runs of cutting textile/cardboard patterns, prototyping, furnishing creation, and much more. Precision, reliability and flexibility are the key features. Simple and intuitive to use, the Optima series incorporates refined cutting technology that can satisfy the most demanding users.

## Key Features

- Manual cutting depth adjustment from 0.1mm to 20mm (with optional oscillating blade)
- Vacuum table for holding media in place.
- Twin head tool station
- Interchangeable creasing accessories for creasing / perfering a wide range of media.
- Crop mark detection as standard



Optima 160

## Twin head tool station

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 20mm thickness.



## Omnia, the new flat bed cutter with automatic feeder. The efficient solution for high volume cutting



Omnia

### Valiani Omnia

The Valiani Omnia has been designed to automatically feed and cut material up to 600 x 800mm (B2) without the need for an operator to load and unload the sheets.

### Key Features

- Continuous sheet media loading and processing
- High capacity feeder
- Perfect cutting and creasing on any media
- Equipped with vacuum table
- Cutting up to 12mm with the oscillating tool
- Uninterrupted workflow
- Camera and software to ensure precise alignment

The cutting arm is equipped with suction cups which lift the materials from the feeder and places them onto the conveyor belt. The conveyor moves the sheets in to the final position and the camera then identifies the crop marks that are printed on the sheet, the sheets are then cut and once the job is finished, each sheet moves into the collection tray.

Thicker materials such as FOREX or corrugated cardboard can also be loaded into the feeder. The load capacity can manage up to 500 sheets (depending on the material thickness).

Valiani optional tools fit onto your tool holder or VersaTool to give it a dedicated function, for example oscillating knife, V cutting, kiss cutting and many more.

### Interchangeable cutting heads

The Valiani machines use an array of Interchangeable cutting heads for its entire line of digital cutters. These heads are retained and positioned to the cutting head assembly by means of several small, yet powerful magnets.

#### Omnia

Maximum media size	600 x 800mm
Minimum media size	210 x 297mm
Feeder capacity	500 sheets (300gsm) - 200mm
Width without safety mat	1620mm (+2000mm for PC)
Depth without safety mat	3255mm
Height	1279mm
Weight	850kg
Max Speed	1350mm /sec
Main Supply	3 phase + PE 400V - 50Hz 13A - 5.2KVA
Pneumatics	8 Bar/115 PSI
Connectivity	USB
Media Holding System	Vacuum



# Valiani Integra 160 | 200 | 250 | 300

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**Valiani cutting** tables offer refined **cutting technology** that can satisfy the most **demanding** users.

## All-in-one machine

The Integra is the answer to cut, kiss-cut, creasing and routing demands as it is able to guarantee an optimal throughput without resorting to a cutting die. This allows it to manage a wide variety of supports and applications as well as a large number of materials, even pre-printed substrates. The machine may be equipped with a high-resolution camera that automatically detects the position of the registration marks for quick and precise contour cuts. Media optimal fixing is given by a dynamically concentrated zone-adjustable vacuum table and pneumatic clamping system. An optional powerful aspirator is highly recommended to remove the residues left by the router and to give shape to a precise product on all sides.



## Main Applications

- Business Signage
- Custom Engraving Plates
- 3D Elements
- Gadgets and Showcase Objects, Display for Points of Sale and Purchase
- Advertising Banners
- Die-Cutting of Digital and Offset Prints
- Packaging

## Sign, Print, Packaging and much more...

Integra represents the ideal answer to cutting, kiss-cut, creasing and milling needs since it is highly profitable and able to guarantee cutting without a die. This allows it to manage a wide variety of supports and applications as well as many materials, even pre-printed substrates by use of Opticrop software and the high-resolution camera. Media optimal fixing is guaranteed by a zone-adjustable vacuum table and pneumatic clamping system.

## V Studio

V-Studio is the suite of programs for all Valiani machines, developed to optimize the use of all computerized cutting machines. An innovative menu allows you to reach specific applications designed to create projects with absolute simplicity. Creating original mat-boards in quicker times,

personalizing your boxes and achieving

contour cuts from today will be simpler thanks to an ideal design environment, equipped with extraordinary tools.





# Valiani Integra 160 | 200 | 250 | 300

A **1kW router** can be added to **cut** more rigid substrates like **dibond**, **plexiglass** and **aluminum composites**.



## Routing Tool

The 1kW router to be mounted on the integra can handle the processing of the most common rigid material used in the graphic and sign industry including rigid PVC foam, acrylic and aluminum composite panels, dibond, forex (more than 1 cm thick), plexiglass, packaging of every kind, point of sale displays, vinyl and magnets, and much more. The router module reaches a maximum of 6mm in diameter.

## Materials

- Plexiglass
- Aluminum composite / dibond Plexiglass
- Acrylic
- Plastic Materials
- Foamboard
- Laminates
- Folding and corrugated cardboard



## M3 & M3 Art Software

M3 and M3 Art software are specialized software for boxes and POP/POS Display.

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

Supportive materials include folding carton, corrugated board and rigid board.

## Opticrop

OptiCrop software 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.

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

Invicta Series	80	120	150
Working area	820x620mm	1220x820mm	1520x1020mm
Speed	500mm/sec		
Power Requirements	Single phase - 100/240V 50/60Hz 16A		
Air Pressure Requirements	6 BAR/90 PSI (3.5 CFM) 8 BAR/115 PSI (5.3 CFM) With Oscillating Tool		
Tool Number	1 Slots		
Connectivity	USB 2.0/Bluetooth		
Cutting Capacity	20mm with Oscillating Tool head 5 mm (3/16") with Standard Cutting head.		
Media Hold System	Vacuum bed 6. Pneumatic Clamping System		
Standard Configuration	Invicta machine, stand, cutting tool 6. vacuum pump		
Width	1260mm	1780mm	2080mm
Height	1100mm	1100mm	1100mm
Depth	1170mm	1394mm	1594mm
Weight (kg/lbs)	190kg	290kg	320kg

Optima Series	80	160	250
Working area	1230x815mm	1230x1600mm	1230x2500mm
Speed	840mm/sec		
Power Requirements	Single Phase 220 50Hz - 10A		
Air Pressure Requirements	6 BAR/90 PSI (3.5 CFM) 8 BAR/115 PSI (5.3 CFM) With Oscillating Tool		
Tool Number	2 Slots		
Connectivity	USB		
Cutting Capacity	20mm with Oscillating Tool head 5 mm with Standard Cutting head.		
Media Hold System	Vacuum bed 6. Pneumatic Clamping System		
Standard Configuration	Invicta machine, stand, cutting tool 6. vacuum pump		
Width	1830mm	1830mm	1830mm
Height	1200mm	1200mm	1200mm
Depth	1430mm	2230mm	3010mm
Weight (kg/lbs)	440kg	490kg	600kg

Integra Series	160	200	250	300
Working area	1230x1630mm	1600x2050mm	1230x2520mm	1600x3050mm
Speed	1160mm/sec			
Power Requirements	3-Phase + PE 400 V - 5.8 KVA			
Air Pressure Requirements	6 BAR/90 PSI (3.5 CFM) 8 BAR/115 PSI (5.3 CFM) With Oscillating Tool			
Tool Number	2 Slots			
Connectivity	LAN (Ethernet) & USB			
Cutting Capacity	20 mm (3/4") with Oscillating Tool head 5 mm (3/16") with Standard Cutting head.			
Media Hold System	Vacuum bed 6. Pneumatic Clamping System			
Standard Configuration	Integra machine, stand, cutting tool 6. vacuum pump			
Width	1830mm	2200mm	1830mm	2200mm
Height	1360mm	1360mm	1360mm	1360mm
Depth	2230mm	2730 mm	3010mm	3640 mm
Weight (kg/lbs)	540kg	650kg	590kg	690kg

\*Disclaimer As part of our continued product improvement plan, specifications and information published here are subject to change without notice. All specifications are dependent on application, type of stock, temperature, RH and print engine used. Specifications quoted were measured on uncoated and unprinted stock. E & OE.