



Equipment & products

**Marquage**

**THERMOFLAN**

## **Industrial Hybrid digital printing : Hb Eagle range**

The range of EAGLE Hybrid digital printers was specifically designed for industrial marking applications on glass, metal, ceramic, leather ...

Their ink technology combined with halogen lamps provides unalterable marking.

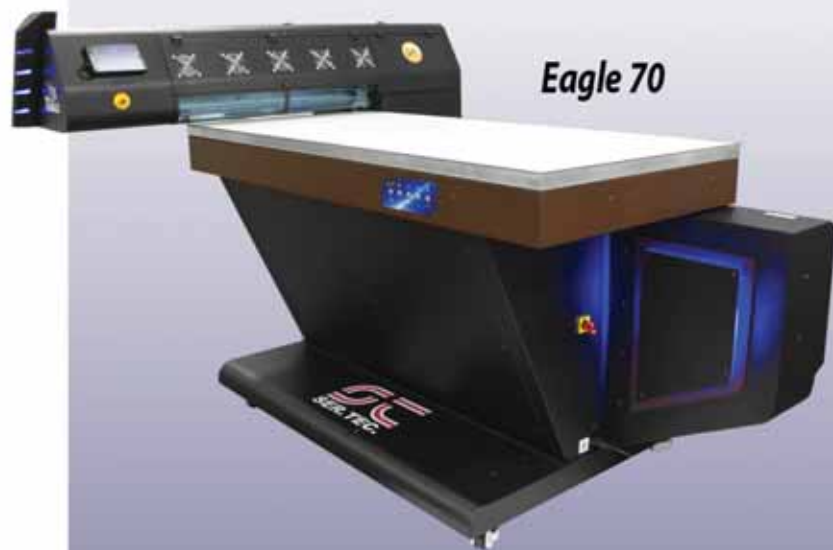
With an innovative wing-shaped design, they allow rapid production and sampling.

Compared to alternative flat bed machines (two-point guided motor), EAGLE Hybrid printers are equipped with a single point guide, which means that there is no size constraint and bulky materials can be inserted.

Perfect for printing on these substrates, EAGLE has a dedicated software : WhiteRip

### **Printable materials :**

Ceramic,  
glass,  
Stainless steel,  
Dibond,  
Brass,  
Leather,  
various metals ...



**Eagle 70**




**Eagle 130**



**Eagle XL**

Designed and manufactured in Europe, Hybrid range includes three different size models: EAGLE 70 Hb, EAGLE 130 Hb and EAGLE XL Hb, all equipped with ink technology and halogen lamps securing almost unalterable marking. Fine quality ink deposit is obtained through white ink circulation system, pressurized ink flow control, print motor adjustment by height sensors and absolute encoder brushless motors. They come with dedicated WhiteRip software, including specific functions developed for printing.

 <p><b>EAGLE RANGE MAIN FEATURES</b></p> <ul style="list-style-type: none"> <li>- Printed part max thickness up to 250 mm</li> <li>- Printhead of new generation</li> <li>- Powerful and adjustable lamp for fast ink drying</li> <li>- Wing shaped profile for easy access</li> <li>- Pressurized ink system with circulation</li> <li>- Dedicated Rip : Whiterip</li> </ul>	 <p><b>Thickness</b> With a 250 mm printing height, extensible up to 450 mm on request, it is possible to print very bulky products.  Printers are able to detect product height avoiding collisions that could damage the print head.</p>	 <p><b>New printhead generation</b> New printheads have better performance and longer life, thanks to a mirror treatment to prevent ink deposit and nozzle clogging.  They can generate variable dot sizes significantly improving performance, especially in smooth gradations.</p>	 <p><b>Halogen lamp</b> Eagle printers are equipped with an adjustable power halogen lamp, to dry inks.  Thanks to this technology, material is ready to be handled immediately after printing, though it should be placed in an oven to definitively fix marking.</p>	 <p><b>Wing shape profile</b> Eagle innovative wing design, with 3 sides completely open, allows easy access to the printing table, even while printing.  This allows the table to be reloaded during printing process and to load materials larger than the table.</p>	 <p><b>Ink system</b> Printers use a pressurized ink system, with constant recirculation of white ink to the head.  This prevents deposits and bubbles from forming in the circuit, reducing downtime and maintenance costs.</p>	 <p><b>Dedicated Rip software: WhiteRIP</b> Printers are equipped with WhiteRIP professional RIP software featuring specific functions to increase production and reduce ink consumption, including: - Online printing (white / color) Printing with template management. Automatic white base. 3D effect relief printing. - Head pressure management (distance)</p>
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### OPTIONS



#### Vacuum table and blowing system

Eagle Hb printers can be equipped with vacuum table that hold the light materials to the print table and prevent them from moving.

To move heavy parts, it is possible to mount a blowing system that allows materials to "float".

### HYBRID PRINTING : THE COMBINATION OF TWO ELEMENTS: INK AND LAMP

Hybrid printing system is based on a special ink formulation that penetrates inside the product and is dried by an halogen lamp. The power of the lamp can be adjusted according to the material heat tolerance (eg leather). Once printed, the product can be handled but must be dried at 120°C for 30 minutes.



#### Retractable positioning tabs

Optional positioning tabs allow to put object in perfect alignment with the print table in a few seconds.

Positioning tabs can be completely retracted from the machine control panel not be an obstacle when the machine is printing or when loading the table with large objects



#### Rotary tool

The rotary tool kit allows to easily print on circular parts (bottles, perfect cylinders ...). The kit can be assembled and disassembled in a very short time allowing to quickly change production type.



#### Customization

Eagle printers can be customized to meet specific requirements, such as automatic loading/unloading stations, improved vacuum systems, special printing tables, etc.

TECHNICAL SPECIFICATIONS	EAGLE 70 Hb	EAGLE 130 Hb	EAGLE XL UV 70/130 Hb	EAGLE LINE UV 70/130 Hb
<b>Printing Technology</b>	Inkjet piezoelectric printhead	Inkjet piezoelectric printhead	Inkjet piezoelectric printhead	Inkjet piezoelectric printhead
<b>Resolution</b>	360 to 1440 dpi in multi passes	360 to 1440 dpi in multi passes	360 to 1440 dpi in multi passes	360 to 1440 dpi in multi passes
<b>Maximum printable area</b>	700 x 1500 mm	1300 x 1500 mm	700 / 1300 mm x 2.5 to 5 meters ( 2.5 and 3 m standard )	700 / 1300 mm x 1500 mm
<b>Maximum material thickness</b>	250 mm	250 mm	250 mm	250 mm
<b>Printing table size</b>	750 x 1650 mm	1360 x 1650 mm	750 / 1350 mm x customizable	no limit
<b>Maximum printed part weight</b>	100 kg weight evenly distributed	150 kg weight evenly distributed	120 / 150 kg weight evenly distributed	80 / 150 kg weight evenly distributed
<b>Inks</b>	Hybrid inks in 500 ml or 1 L bottles	Hybrid inks in 500 ml or 1 L bottles	Hybrid inks in 500 ml or 1 L bottles	Hybrid inks in 500 ml or 1 L bottles
<b>Color configuration</b>	CMYK CMYK (2 x 4 colors) - CMYK WWWW (4 colors + white)	CMYK CMYK (2 x 4 colors) - CMYK WWWW (4 colors + white)	CMYK CMYK (2 x 4 colors) - CMYK WWWW (4 colors + white)	CMYK CMYK (2 x 4 colors) - CMYK WWWW (4 colors + white)
<b>Interface</b>	Ethernet	Ethernet	Ethernet	Ethernet
<b>Electric supply</b>	230 v, 50/60 Hz, 1000 w	230 v, 50/60 Hz, 1800 w	230 v, 50/60 Hz, 2400 w	230 v, 50/60 Hz, 1000 / 1800 w
<b>Working Environment</b>	20-25° Humidity 35-80% without condensation	20-25° Humidity 35-80% without condensation	20-25° Humidity 35-80% without condensation	20-25° Humidity 35-80% without condensation
<b>Machine sizes</b>	2365 x 1575 x 1530 mm	2370x2180x1530 mm	70/2500 mm : 3450x1575x1530 - 130/2500 : 3450x2180x1530 mm	70 : 1400x1575x1530 mm - 130 : 1400x2180x1530 mm
<b>Weight</b>	520 Kgs	700 Kgs	70/2500 : 650 Kgs - 130/2500: 800 kgs	70: 600 Kgs - 130 : 740 kgs
<b>Software</b>	WhiteRip Edition (color management rip)	WhiteRip Edition (color management rip)	WhiteRip Edition (color management rip)	WhiteRip Edition (color management rip)
<b>Options</b>	Vacuum table, rotary tool, gloss ,retractable tabs	Vacuum table, rotary tool, gloss, retractable tabs	Vacuum table, rotary tool, gloss, retractable tabs	Vacuum table, rotary tool, gloss , retractable tabs

With unique characteristics, EAGLE Hb is an ideal printer not only for industrial marking companies, but also for ceramic manufacturers, glassmakers, and leather work companies.

Ideal for small and medium series, its easy installation, high printing speeds and wide printable material compatibility make it the best equipment for production

#### What can Eagle Hb print ?

- ◆ Print on glass, ceramics, metals, leather..
- ◆ Print on rigid or flexible materials
- ◆ Print a single unit or a complete serie
- ◆ Print incredible images using the variable dot technology of its printhead.
- ◆ Print on transparent or colored supports, using white underbase.
- ◆ Print in color-white-color to produce an image visible on both sides, on glass or acrylic.
- ◆ Print cylindrical objects: bottles, bed feet...



**Cuir**



**Céramique**



**Verre**



**Métal**