THERMOFLAN

Industrial UV digital printing

UV Eagle range

The range of EAGLE UV digital printers was specifically designed for object printing applications. With an innovative wing-shaped design, they allow rapid production and sampling. Compared to alternative flat bed machines (two-point guided motor), EAGLE UV 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 any substrate, EAGLE has a dedicated software : WhiteRip

Printable materials:

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Wood, ceramic, glass, fabric, dibond, forex, polystyrene and polyurethane sheets, PVC sheets, PP polypropylene sheets, cardboard sheets, aluminum panels, transparent and colored acrylic, various metals and much more...
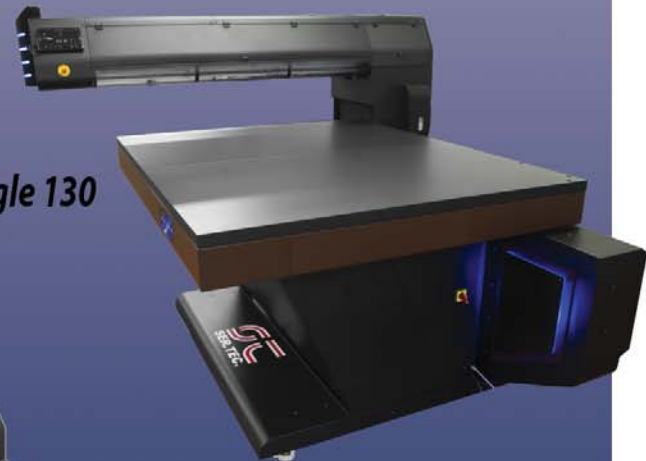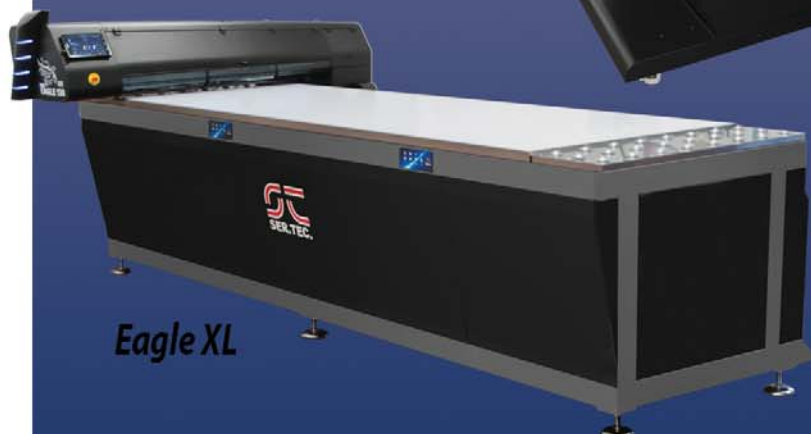

Eagle 50

Eagle 70

Eagle 130

Eagle XL

Designed and manufactured in Europe, UV range includes 4 different size models: EAGLE 50, EAGLE 70 , EAGLE 130 and EAGLE XL , all equipped with latest UV LED lamps , white ink circulation system, pressurized ink flow control, print motor adjustment by height sensors and absolute encoder brushless motors.
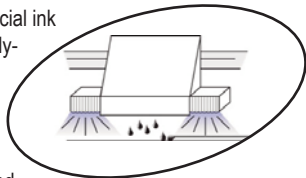
They come with dedicated WhiteRip software, including specific functions developed for UV printing.

UV PRINTING : LAMP IMPORTANCE

UV printing system is based on inks completely and almost instantly dried by UV lamps, to produce a "cleaner" print with brighter color output.

For this, we use a special ink designed to initiate poly-merization (curing) reaction under the effect of UV rays. The main point of this technique is that printed material is ready and usable right at the end of the printing process.

UV printing can be made on any type of material, with nice results: glossy, embossed, erased just by printing on the desired surface.

UV LED technology secures high quality prints on any substrate, with low processing temperature for compatibility with heat sensitive materials.

Life of UV LED lamps is 40 times longer than that of conventional lamps, their price is much lower than that or current UV lamps. Another considerable advantage is their low electric consumption combined with no ozone release.

EAGLE RANGE MAIN FEATURES

- Printed part thickness up to 250 mm
- Printhead of new generation
- More powerful lamps for faster ink drying
- Wing shaped profile for easy access
- Pressurized ink system with circulation
- Dedicated Rip : Whiterip

Thickness
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.

New printhead generation
New print heads have a better performance, they last longer, thanks to a mirror treatment to prevent color deposit and print nozzle clogging.

New Eagle printheads can print with variable dot size delivering smooth gradations for significantly improved performance

New UV lamps
Eagle UV printers are equipped with two ajustable power water cooled UV lamps, to dry inks.

Thanks to this technology, material is ready to be handled immediately after printing, without addtional treatment.

Wing shape profile
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.

Ink system
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..

Dedicated Rip software:WhiteRIP
Printers are equipped with WhiteRIP professional RIP software featuring specific functions to increase production and reduce ink consumption, including:
Online printing (white / color/ gloss)
Printing with template management.
Automatic white base.
3D effect relief printing .
Head pressure management (distance)

OPTIONS

Vacuum table and blowing system
Eagle Hb printers can be equipped with vacumm 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".

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
(not available on Eagle50)

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.
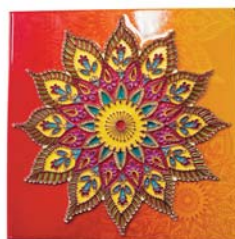
TECHNICAL SPECIFICATIONS	EAGLE 50	EAGLE 70	EAGLE 130	EAGLE XL UV 70/130	EAGLE LINE UV 70/130
Printing technology	Inkjet piezoeletric	Inkjet piezoeletric	Inkjet piezoeletric	Inkjet piezoeletric	nkjet piezoeletric
Resolution	360 to 1440 dpi in multi passes	360 to 1440 dpi in multi passes	360 to 1440 dpi in multi passes	3360 to 1440 dpi in multi passes	3360 to 1440 dpi in multi passes
Maximum printable area	500 x 700 mm	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
Maximum material thickness	250 mm	250 mm	250 mm	250 mm	250 mm
Printing table sizes	550 x 750 mm	750 x 1650 mm	1360 x 1650 mm	750 / 1350 mm x personnalisable	indefinie
Maximum printed part weight	25 kg weight evenly distributed	100 kg weight evenly distributed	150 kg weight evenly distributed	120 / 150 kg weight evenly distributed	80 / 150 kg weight evenly distributed
Inks	Semi flexible inks in 500 ml or 1 L bottle	Semi flexible inks in 500 ml or 1 L bottle	Semi flexible inks in 500 ml or 1 L bottle	Semi flexible inks in 500 ml or 1 L bottle	Semi flexible inks in 500 ml or 1 L bottle
Color configuration	CMYK CMYK (2 x 4 colors) CMYK WWWW (4 colors + white) CMYK WWGIGI (4 colors + white + gloss)	CMYK CMYK (2 x 4 colors) CMYK WWWW (4 colors + white) CMYK WWGIGI (4 colors + white + gloss)	CMYK CMYK (2 x 4 colors) CMYK WWWW (4 colors + white) CMYK WWGIGI (4 colors + white + gloss)	CMYK CMYK (2 x 4 colors) CMYK WWWW (4 colors + white) CMYK WWGIGI (4 colors + white + gloss)	CMYK CMYK (2 x 4 colors) CMYK WWWW (4 colors + white) CMYK WWGIGI (4 colors + white + gloss)
Interface	Ethernet	Ethernet	Ethernet	Ethernet	Ethernet
Electric supply	230 v, 50/60 Hz, 1000 w	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
Working environment	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	20-25° Humidity 35-80% without condensation
Machine sizes	1430 x 1575 x 1530 mm	2365 x 1575 x 1530 mm	2370x2180x1530 mm	70/2500 mm : 3450x1575x1530 - 130/2500 : 3450x2180x1530 mm	70 : 1400x1575x1530 mm - 130 : 1400x2180x1530 mm
Weight	330 Kgs	520 Kgs	700 Kgs	70/2500 : 650 Kgs - 130/2500: 800 kgs	70: 600 Kgs - 130 : 740 kgs
Included software	WhiteRip Edition (color management rip)	WhiteRip Edition (color management rip)	WhiteRip Edition (color management rip)	WhiteRip Edition (color management rip)	WhiteRip Edition (color management rip)
Options	Vacuum table, rotary system, gloss	Vacuum table, rotary system, gloss, retractable tabs	Vacuum table, rotary system, gloss, retractable tabs	Vacuum table, rotary system, gloss, retractable tabs	Vacuum table, rotary system, gloss, retractable tabs

With unique characteristics, EAGLE UV is an ideal printer not only for screen printers and printers, but also for engraving, gifts and gadgets and graphic design 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 UV print ?

♦ Print on wood, plastic, ceramic, paper, metal and many other materials.

♦ 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.

♦ Enhance images by adding areas of gloss varnish on parts or complete graphics

♦ Print on transparent or colored supports, using white underbase

♦ Print color-white-color for two sided images on glass or other transparent materials

♦ Print on cylindrical parts : bottles, bed feet...

♦ Print with 3D or braille effects