

JET D-SCREEN



The digital embellishment

JET D-SCREEN

Industry 4.0

The Digital Embellishment

CARTES introduces the new high quality standard of "Digital Embellishment" special effects with its exclusive technology, the JET D-SCREEN, able to create multi-layer effects such as 3D cast gold and braille printing.

Our R&D department has developed an innovative finishing technology that allows depositing a thicker layer of ink on any face stock, previously impossible to achieve with any other Ink jet technology.

The printing process starts from ink jet heads dropping a special varnish that then is cured by hybrid LED/UV lamps allowing to run any type of material face stock even those where polymerization need a special treatment.

The job has been highly simplified for the user since software ease the selection of options from already predefined settings, even those about the type of material to run, thus achieving immediate production without any waste.

Face stocks to be printed by the JDS do not need to be treated before, since its may distort the surface texture.

The JET D-SCREEN unit for digital Embellishment is the latest innovation in the wide range of CARTES developments. In a single step, it allows you to personalize and beautify labels, without tooling costs, with immediate start-up and without any waste of time and material.

Fully Modular, just as all made by CARTES, also fitted to Industry 4.0 requirements.



Features

- No tools required
- Automatic job changing
- Material & time savings during job start up
- Automatic print-distortion & correcting system
- Immediate prior calculation of the necessary varnish contribution in the quote phase
- CARTES own technology
- 100% suitable for natural paper texture face stock
- No special treatment are needed for over printing
- Low production costs

**Very High
Thickness
Achievable**

**Multi-layer
effects**

**High End
embellishment
with No Tools
required**

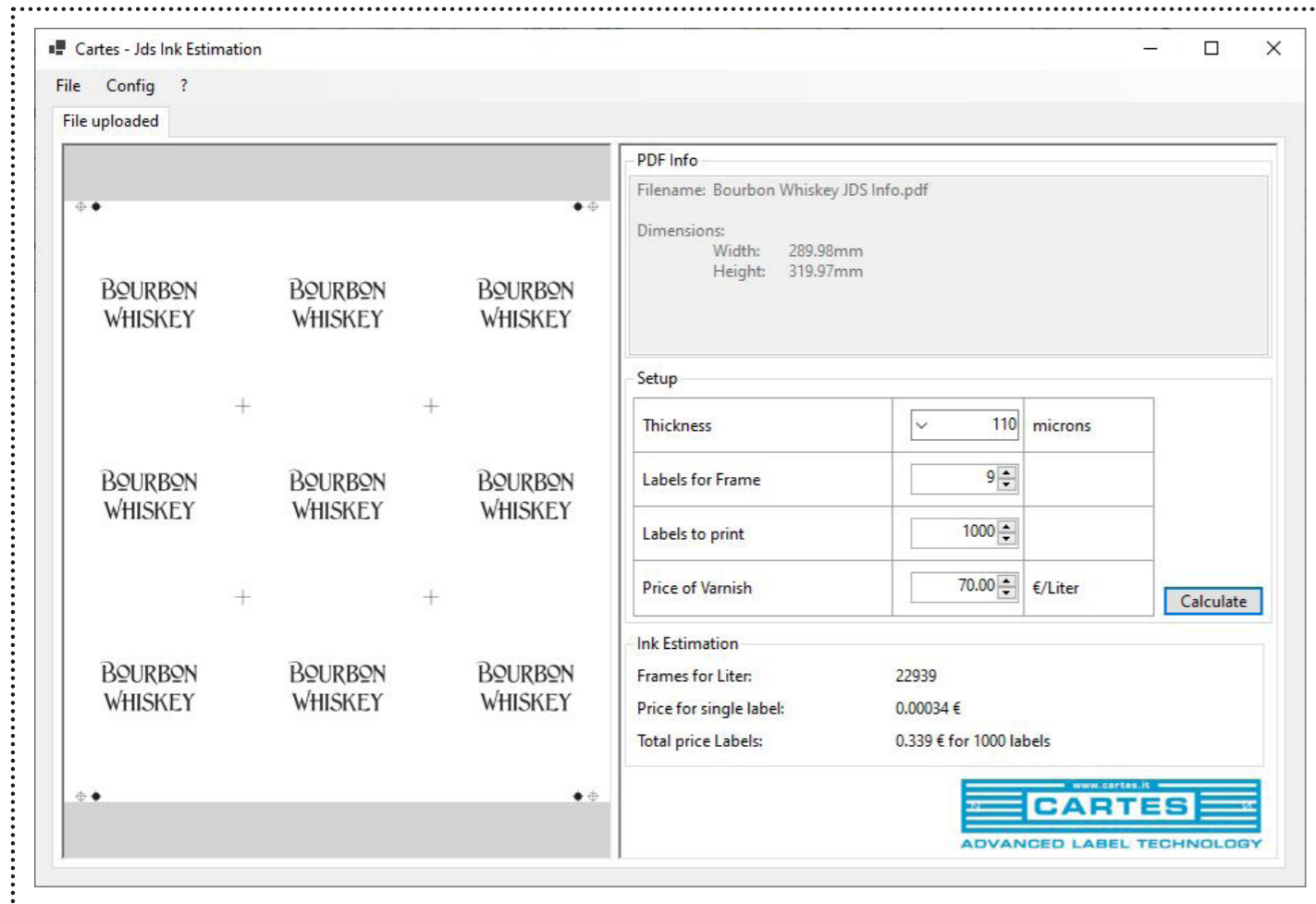
**User-friendly
interface**

Accessories available for both GEMINI and GT360 versions

JDS INK ESTIMATION

The varnish consumption counter is included into the machine software and follow file features. The user must load the file and select the thickness to predict very accurately the production cost, becoming a fundamental tool for precise and reliable estimates.

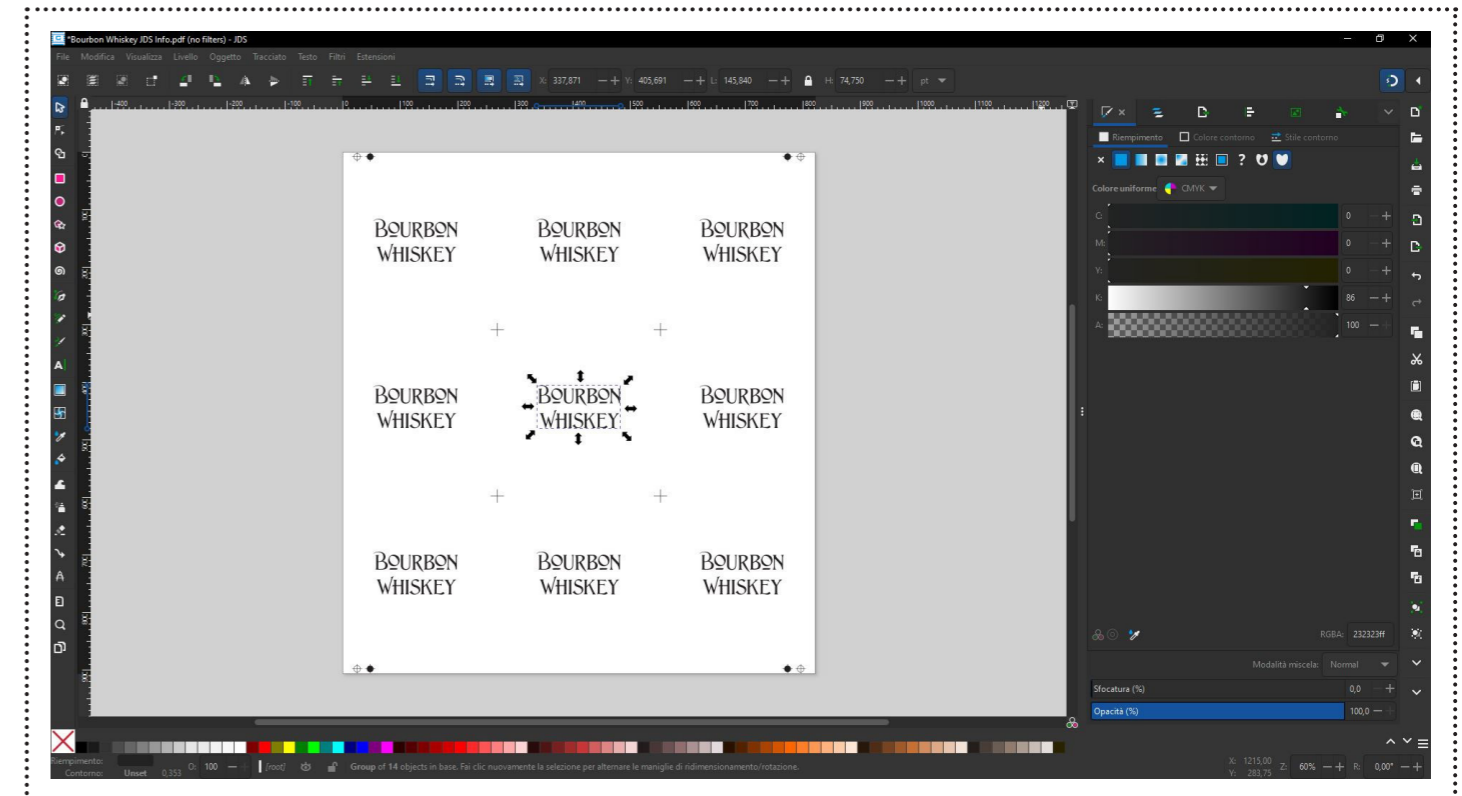
A separated PC version is also available as optional.



JDS DRAW EDITOR

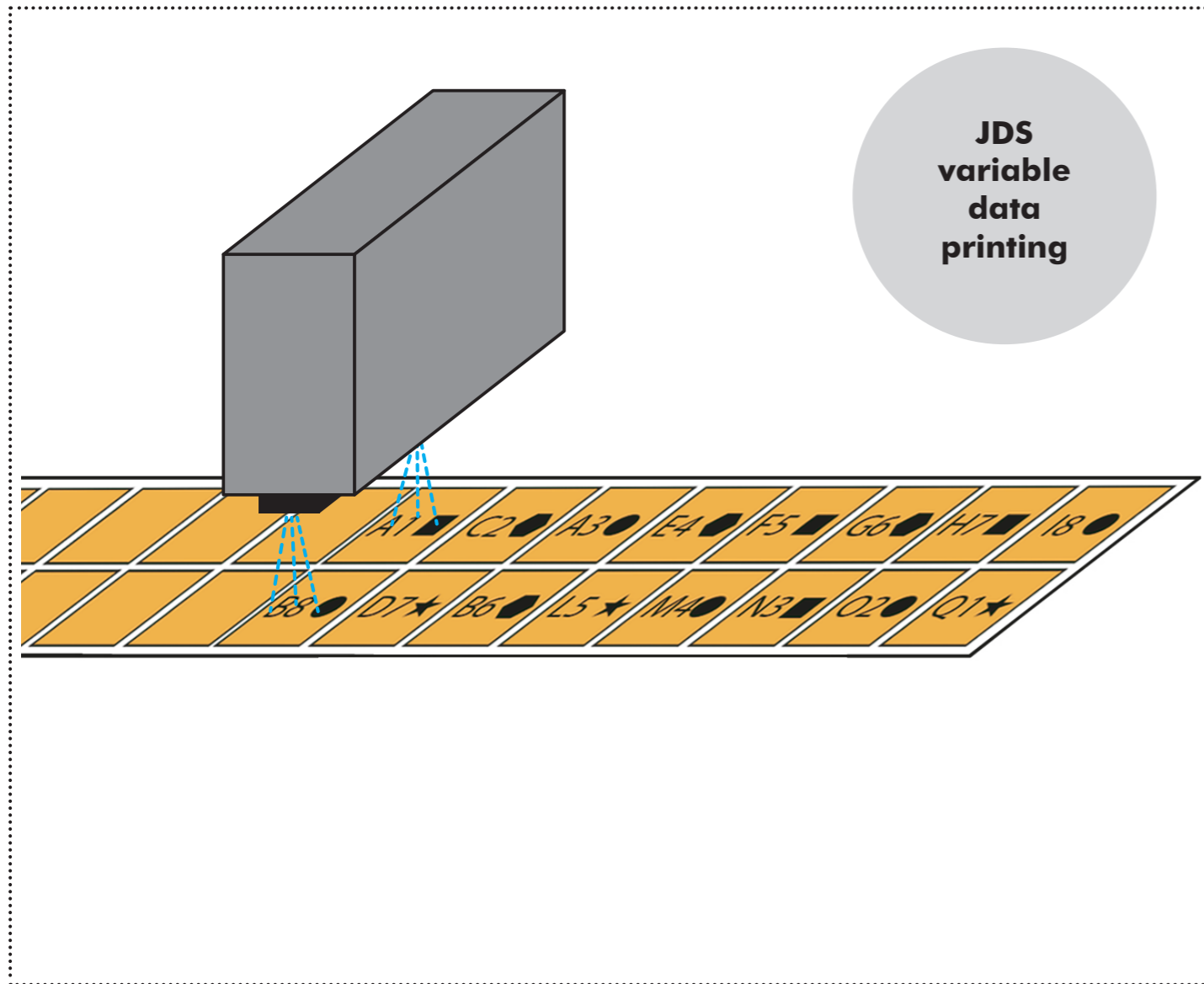
Integrated software suite that permits design editing directly on the machine touch interface. An easy-to-use tool, developed entirely by CARTES, to immediately improve job work directly from the Jet D-Screen unit.

The operator can modify the file when the machine is running, saving time, since avoids prepress and production actions, to get a more efficient workflow.



VARIABLE DATA PRINTING MANAGEMENT

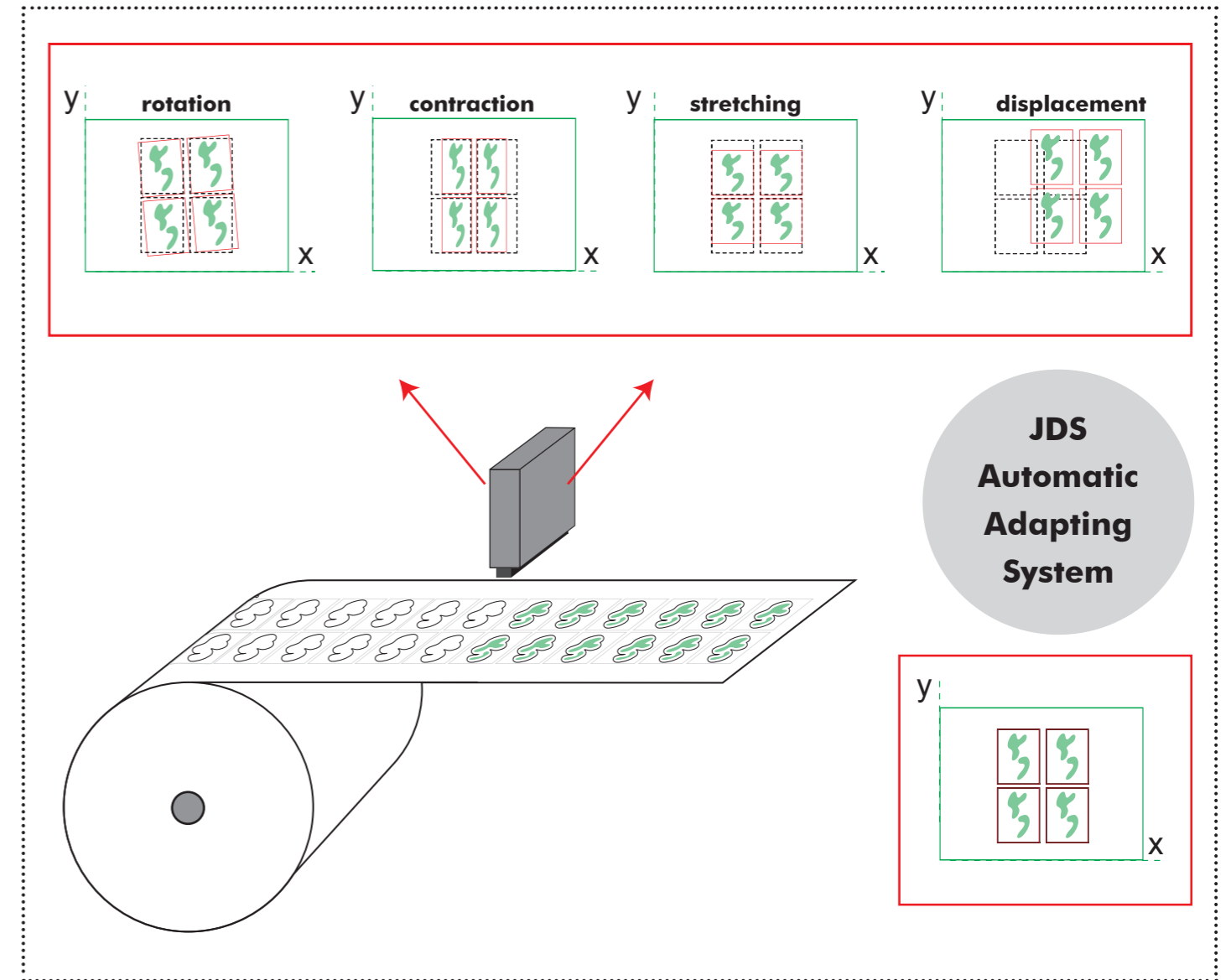
Full variable data setting (text, graphics, image) for both spot varnish and metallic doming.



Accessory available for GEMINI version only

AUTOMATIC DISTORTION CORRECTING SYSTEM

Automatic print-distortion detection system to straighten eventual imprecisions due to rotation, contraction, stretching and/or any format displacement.

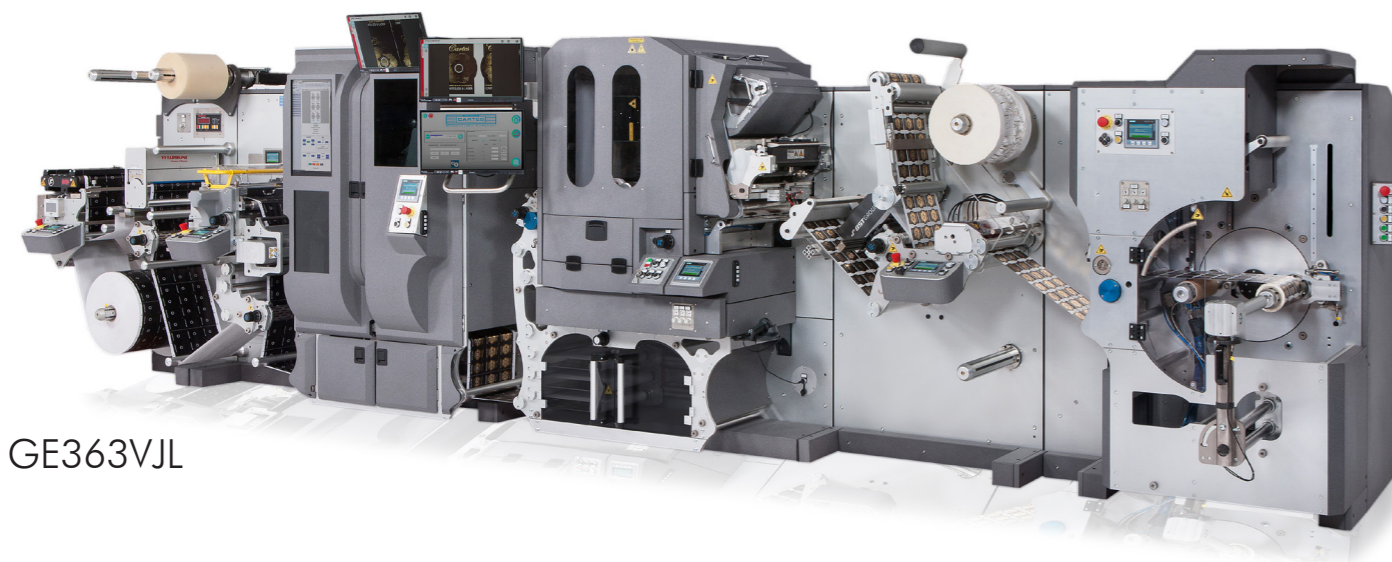




GT364WSHJR



GE362JJ



GE363VJL

Technical data Jet D-Screen

Digital unit Jet D-Screen	Digital printing system	Drop on Demand
	Native print resolution	360 dpi
	Print resolution	up to 360 x 2160 dpi
	Maximum printing area	320 mm x unlimited length - (12.6 in)
	Print setting area	20 to 350 mm – (5 to 13.8 in)
	Relief height for GT360	up to 800 micron
	Relief height for GEMINI	over 200 micron
	Image format	PDF or JPG, BMP, TIFF
Ink system	Container	5 L – (1.32 US Gal)
	Management system	Recirculation
	Varnish loading system	Automatic
	Type varnish	Ultra Clear

This catalog may contain inaccuracies or typographical errors.
 CARTES may make improvements and / or changes to the products at any time without prior notice.



Trowput Consumption:

15.812 labels per liter

Height - varnish only:

630 micron (by 4 printing steps)

Height - metallic foil doming:

130 micron (by 2 printing steps)

Foil: LUXOR/ALUFIN® TX-N

Substrate:

Fasson® PP Light Top Silver



Trowput Consumption:

43.090 labels per liter

Height - bottom side: 60 micron

Height - top side: 130 micron

Foil: LUXOR/ALUFIN® TX-N

Base Substrate:

Manter® Pitch Ultra WS Brown

Laid-on Substrate:

Manter® Materica Verdigris



Trowput Consumption:

141.490 labels per liter

Height: 50 micron

Foil: LUXOR/ALUFIN® TX-N

Base Substrate:

Fasson® Pearl Touch FSC®

Laid-on Substrate :

Fasson® Noble Blanc FSC®



Trowput Consumption:

171.923 labels per liter

Height - butterfly: 60 micron

Height - tree: 90 micron

Height - cartes: 130 micron

Foil: LUXOR/ALUFIN® TX-N

Base Substrate:

Manter® Red Fever

Laid-on Substrate :

Fasson® Cherry Wood



Trowput Consumption:
 14.286 labels per liter
Height: 70 micron
Foil: LUXOR/ALUFIN® TX-N
Substrate:
 Manter® Ispira Nero Mistero



Trowput Consumption:
 44.190 labels per liter
Height: 80 micron
Foil: LUXOR/ALUFIN® TX-N
Substrate:
 Manter® Ispira Nero Mistero



Trowput Consumption:
 60.236 labels per liter
Height: 50 micron
Substrate:
 Manter® Coated snow matt



Trowput Consumption:
 3.846 labels per liter
Height: 600 micron (by 4 printing steps)
Substrate:
 Manter® Red Fever



Trowput Consumption:

55.387 labels per liter

Height - snake: 140 micron

Height - snake skin: 90 micron

Foil: LUXOR/ALUFIN® TX-N

Substrate:

Fasson® Matt Wine FSC®



Trowput Consumption:

63.610 labels per liter

Height - leaves: 40 micron

Height - maiestus: 80 micron

Foil: LUXOR/ALUFIN® TX-N

Substrate:

Fasson® Matt Wine FSC®



Trowput Consumption:

132.112 labels per liter

Height - mountains: 50 micron

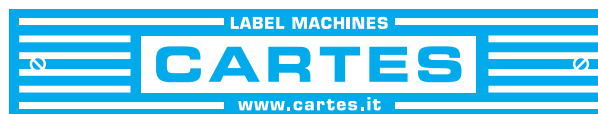
Height - top and bottom reliefs: 80 micron

Height - bue apis: 100 micron

Foil: LUXOR/ALUFIN® TX-N

Substrate:

Manter® Cotone Bianco WS Barrier



CARTES s.r.l.

Headquarters

2, Via Michelangelo - 46024 Moglia (MANTOVA) ITALY

Tel. + 39 0376 511 511

Fax + 39 0376 55 77 55

www.cartes.it - info@cartes.it

CARTES USA Inc

230 Highway 35

Red Bank, NJ 07701-5910

Phone: (732) 933-4865

www.cartes-usa.com - info@cartes-usa.com