

JET D-SCREEN



The digital embellishment

JET D-SCREEN - GT360 series

Industry 4.0

The Digital Embellishment

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

The CARTES research and development department, has developed an innovative finishing technology that allows depositing a thicker layer of ink previously impossible to achieve with Ink technologies.

The work of the operator has been simplified extensively, allowing the selection of options from already predefined settings as well as the choice of the material to be used, thus achieving immediate production in the JDS unit without waste. Materials that are printed with the JDS system do not need to be varnished or treated before, these processes may distort the “texture” of the material.

The printing polymerization device consists of a hybrid LED/UV drying system that allows any type of material to be processed, even those most sensitive to temperature.

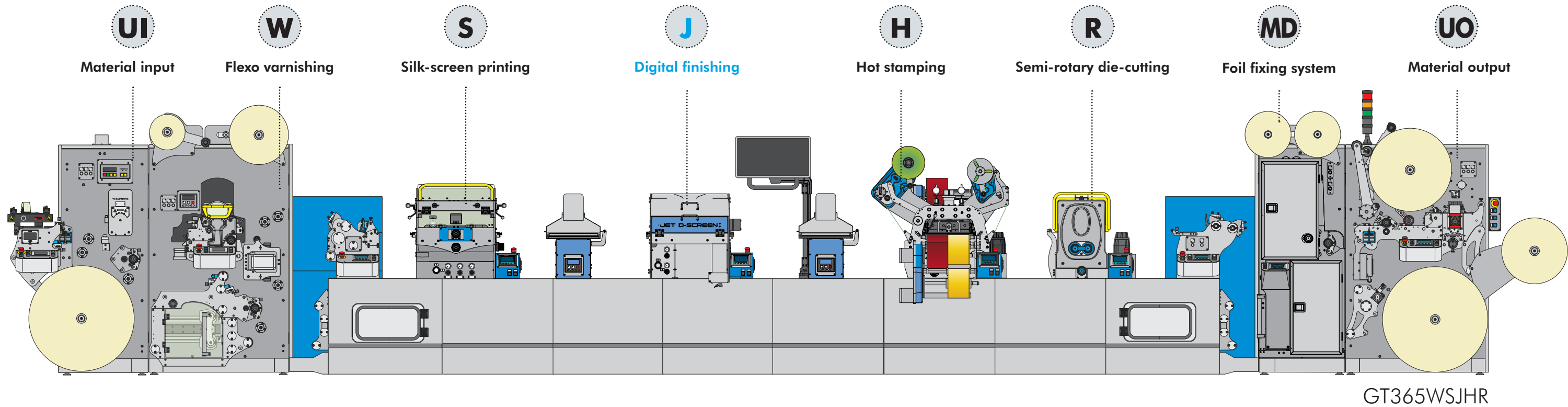
The JET D-SCREEN unit for digital Embellishment is the latest innovation in the wide range of CARTES developments. In a single step, it allows you to personalize and beautify labels, without tooling costs, with immediate start-up and without any waste of materials.

Modular, just as all CARTES technologies, it adapts to the requirements of Industry 4.0.

Advantages

- Until now, it has not been possible to achieve this level of Ink thickness with other
- Ink Jet Technologies.
- No tools required.
- Immediate job change.
- Material savings during start up.
- Adapting the image to printing.
- Immediate prior calculation of the necessary varnish contribution in the quote phase.
- CARTES own technology.
- Compatible with all materials, even natural ones and without special treatments for printing.
- Extremely low costs.





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 1440 dpi
	Maximum print area	320 mm - (12.6 in)
	Print setting area	20 to 350 mm – (5 to 13.8 in)
	Relief height	up to 800 micron
	Image format	PDF or JPG, BMP, TIFF

Ink system	Container	5 L – (1.32 US Gal)
	Management system	Recirculation
	Varnish loading system	automatic
	Automatic washing system	included
	Type varnish	UV-Transparent

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

JET D-SCREEN - GEMINI serie

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High thickness:
over 200
micron

Multi-layer
effects



Easy and
user-friendly
interface

Immediate
embellishment
with no tools
required



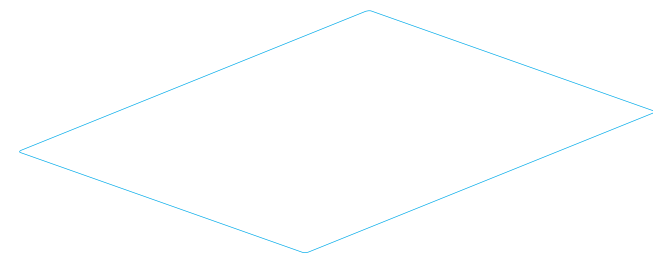
130 - TAJ DI ROS label



Varnish consumption:

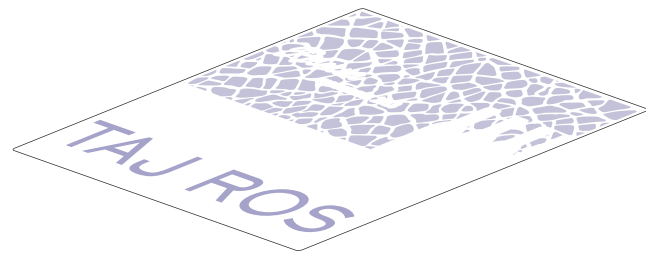
1.5 L – (0.4 US Gal)
 for 10,000 labels

Height: 50 microns



4

Semi-Rotary die-cutting



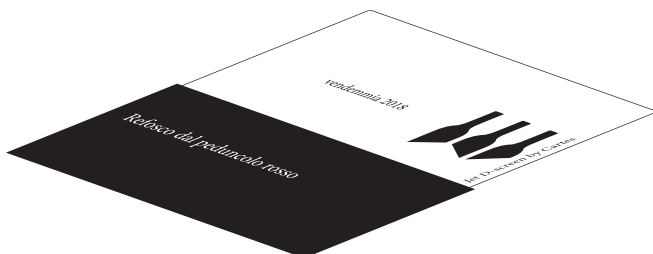
3

High raised digital screen made by
JET D-SCREEN



2

Red screen printing



1

Black screen printing

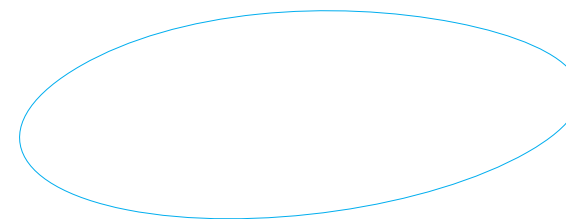
112 - OMBRA label



Varnish consumption:

0.8 L – (0.2 US Gal)
 for 10,000 labels

Height: 100 microns



5

Semi-Rotary die-cutting



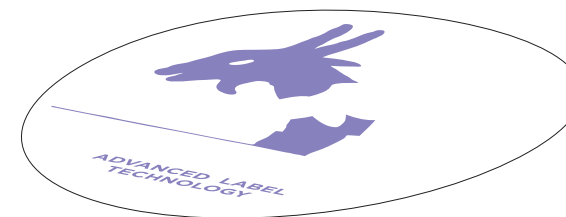
4

Metallic doming



3

High raised digital screen made by
JET D-SCREEN



2

Clear screen varnishing



1

Silver hot foiling

Stamp 134 - CARTES



Varnish consumption:

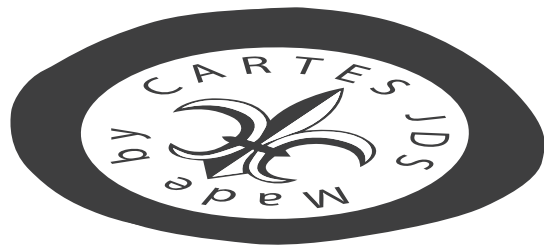
2.6 L – (0.7 US Gal)
for 10,000 labels

Height: 600 microns



4

High raised digital screen
made by **JET D-SCREEN**
Height: 150 microns



3

High raised digital screen
made by **JET D-SCREEN**
Height: 150 microns



2

High raised digital screen
made by **JET D-SCREEN**
Height: 150 microns



1

High raised digital screen
made by **JET D-SCREEN**
Height: 150 microns

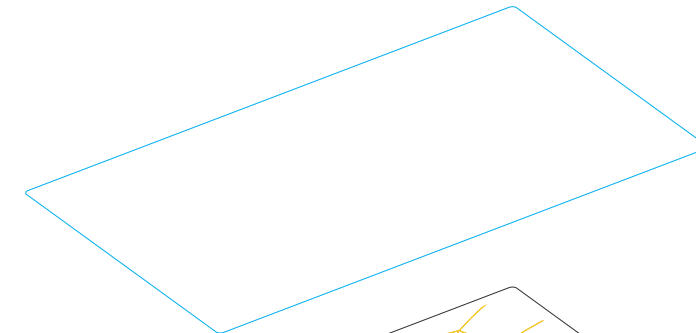
133 - ARAÑA label



Varnish consumption:

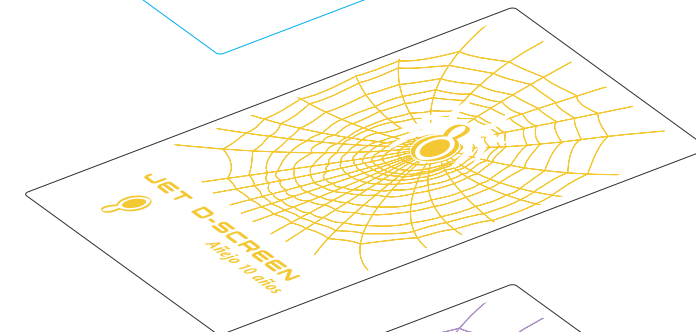
0.7 L – (0.2 US Gal)

Height: 70 microns



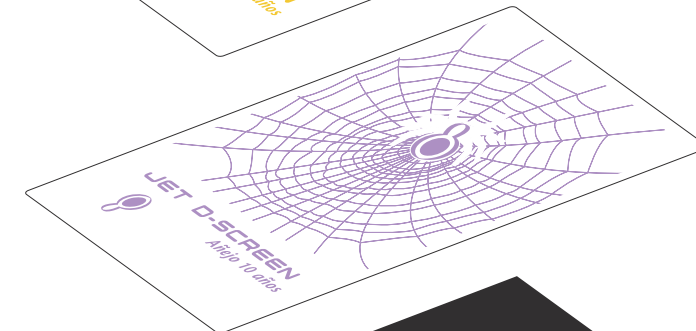
4

Semi-Rotary die-cutting



3

Metallic doming



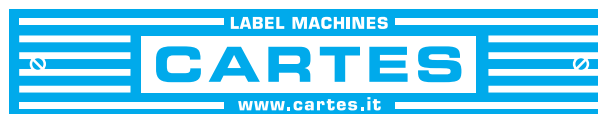
2

High raised digital screen
made by **JET D-SCREEN**



1

Black screen printing



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