LPI Digital Enhancement

Your brand.
Limitless possibilities.

Presentation Updated 6/20/23

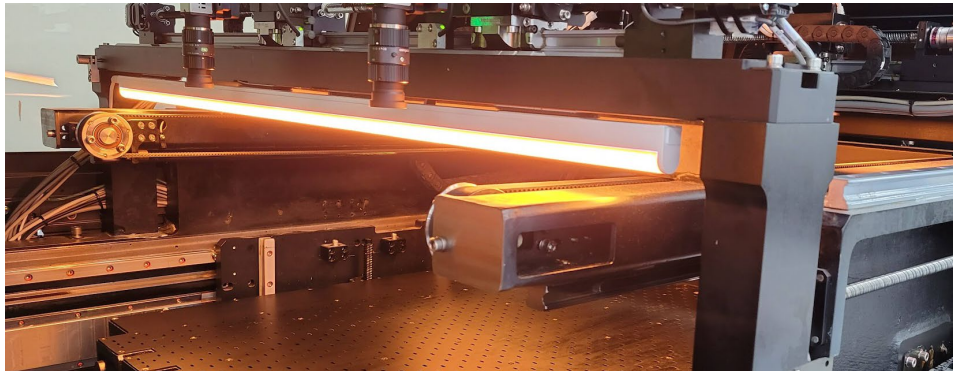
LPI Digital Enhancement

- How it works
- What it can produce
- Photos of Jobs

HOW IT WORKS

THE BASICS

- Print heads lay down polymer, not ink
- Registers to print with “dots”
- 9 Different Printing Applications
- 29-by-41-inch sheet size
- Surface Tension is an important factor for the polymer to lay down.

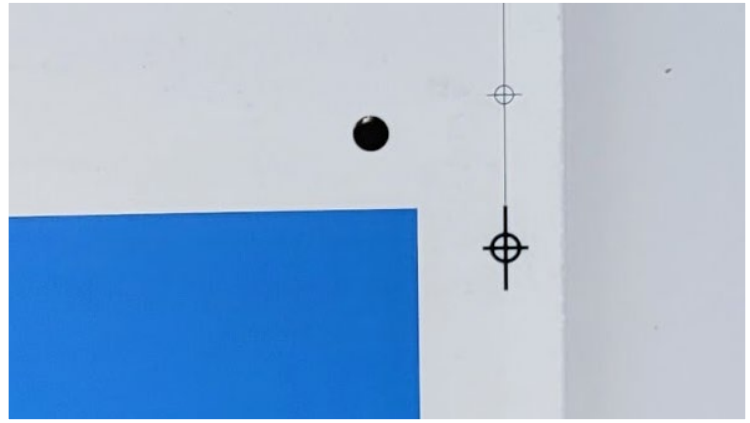


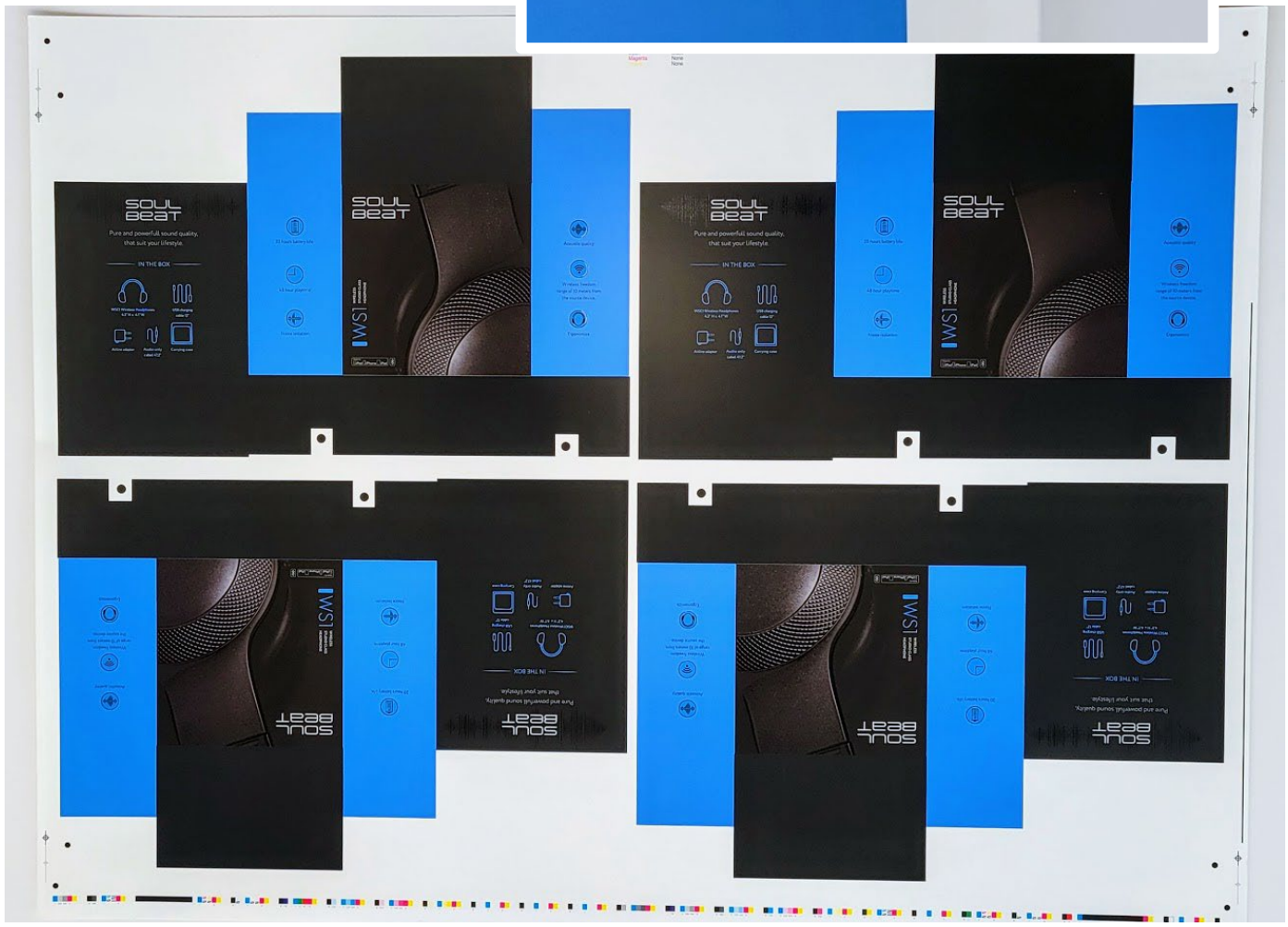
Feature	Description
Substrate format	Min L 11.69” x W 16.53” / Max 29.92” x 41.73”
Printing area	Max L 27.55” x W 39.37”
Substrate range	0.008” - 35 point

HOW IT WORKS

UNIQUE INKJET, POLYMER AND PROCESS TECHNOLOGY

- 4 Registration Cameras
- 3-ways to register:
  - OPA Dots
  - Element / Art (90 Degree dark corner in artwork)
  - Corner (Sheet corner Registration)





Basically, what it comes down to is:

- Polymer is laid down from a height range of 8microns to 90microns in one pass.
  - This height is buildable
  - you can only select one gloss height at a time.)
- Polymer can be laid down by itself (clear) or with foil (range of colors)
- The art can be created in Illustrator, Photoshop, or both.
- The press reads an exported PDF of spot colors.
- The detail can reach as fine as an 8-point sans serif font.
  - Soon we may be able to reach 5-point with a new upgrade later this year.
- For the polymer to lay down properly, the surface tension of the top layer of the project must be approved or tested and approved by LPI.
- There are a few other parameters that need to be met but each project is evaluated by LPI's internal enhancement team before production & sometimes while quoting.

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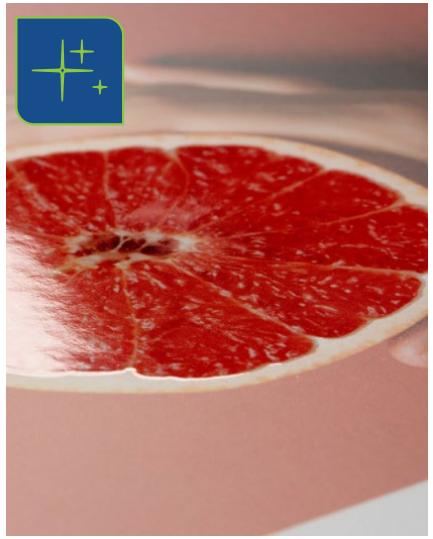
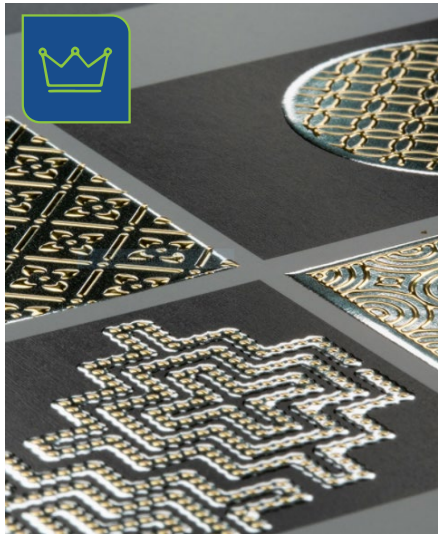
9 Digital Applications



Digital Spot

Digital Sense

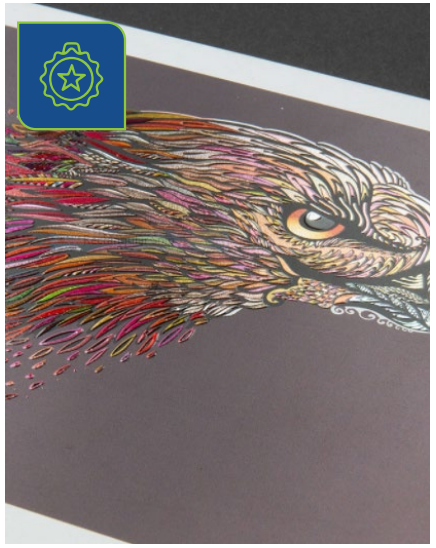


Digital Foil

Digital Cast&Cure

Digital 3D Crystals

Digital Glitter

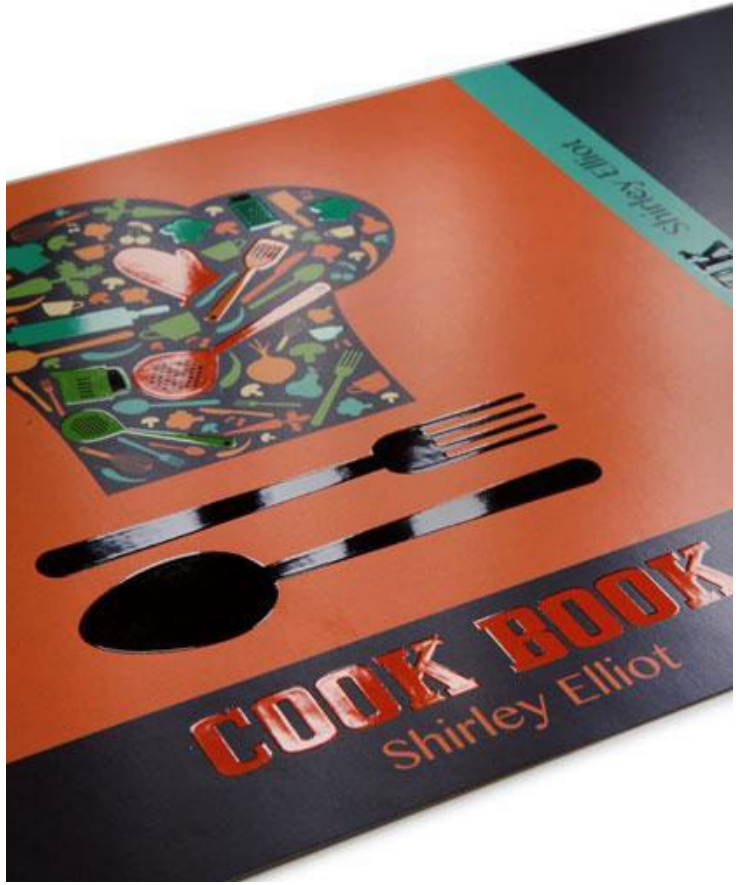


Digital Metallic

Digital VDE

Digital Braille

Digital Spot UV 1 Pass



15 microns = 3 times through a screen press

8 microns – so you can just barely see it

One important thing to note about the spot UV, is that it isn't for large areas. It wasn't designed to flood coat, just spot.

Digital Sense

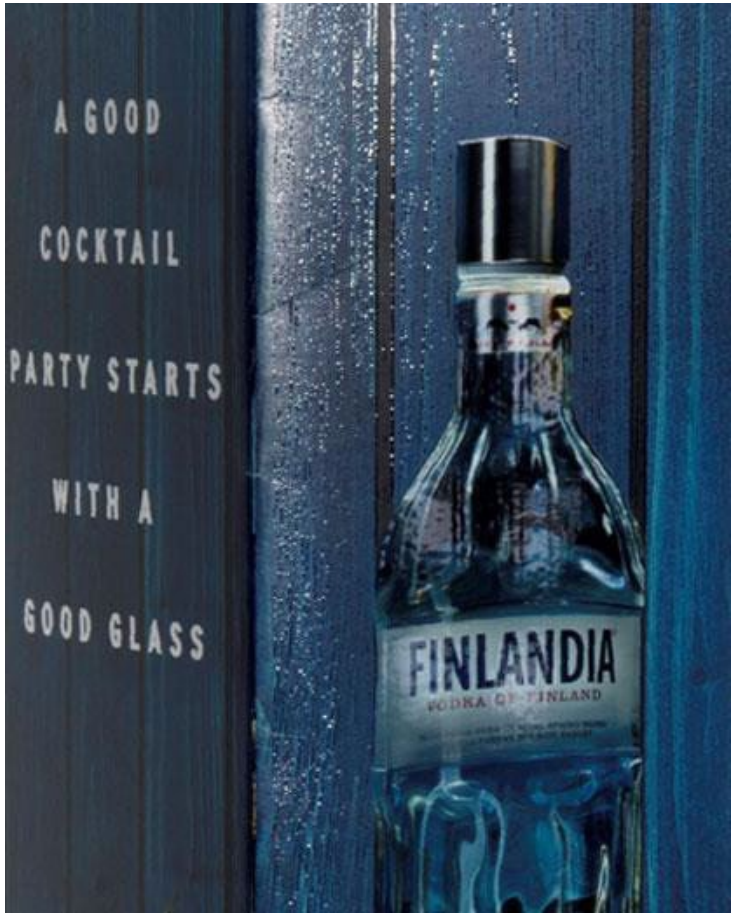
1 Pass

Digital Sense

1 Pass

60 microns in height

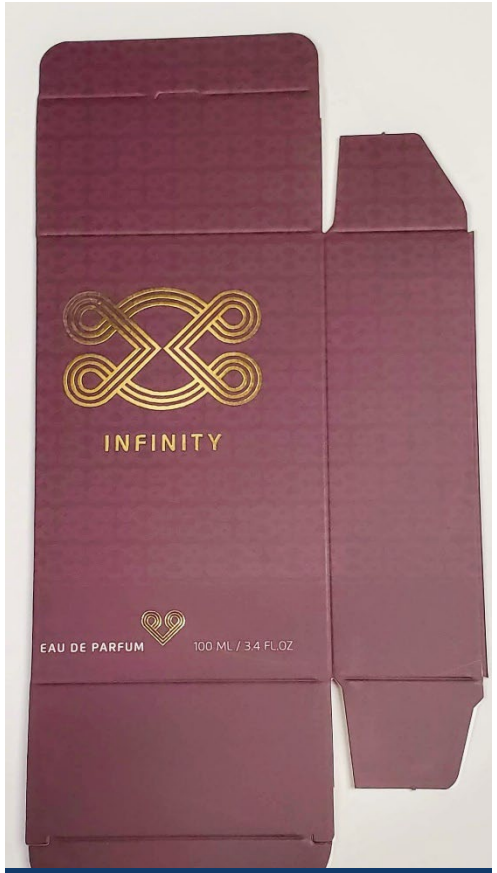
Feel the logo on the blind sense application



“Feel” the sweat on the bottle in this image

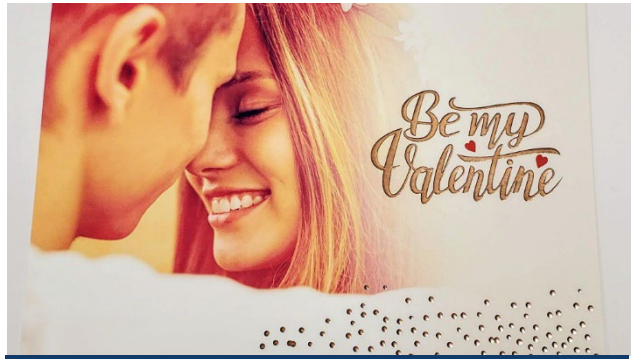
Digital Foil 1 Pass

Embossed Foil



Flat Foil on Soft Touch Substrate

Textured substrate causes imperfections in the foil. The busy design helps hide the imperfections.

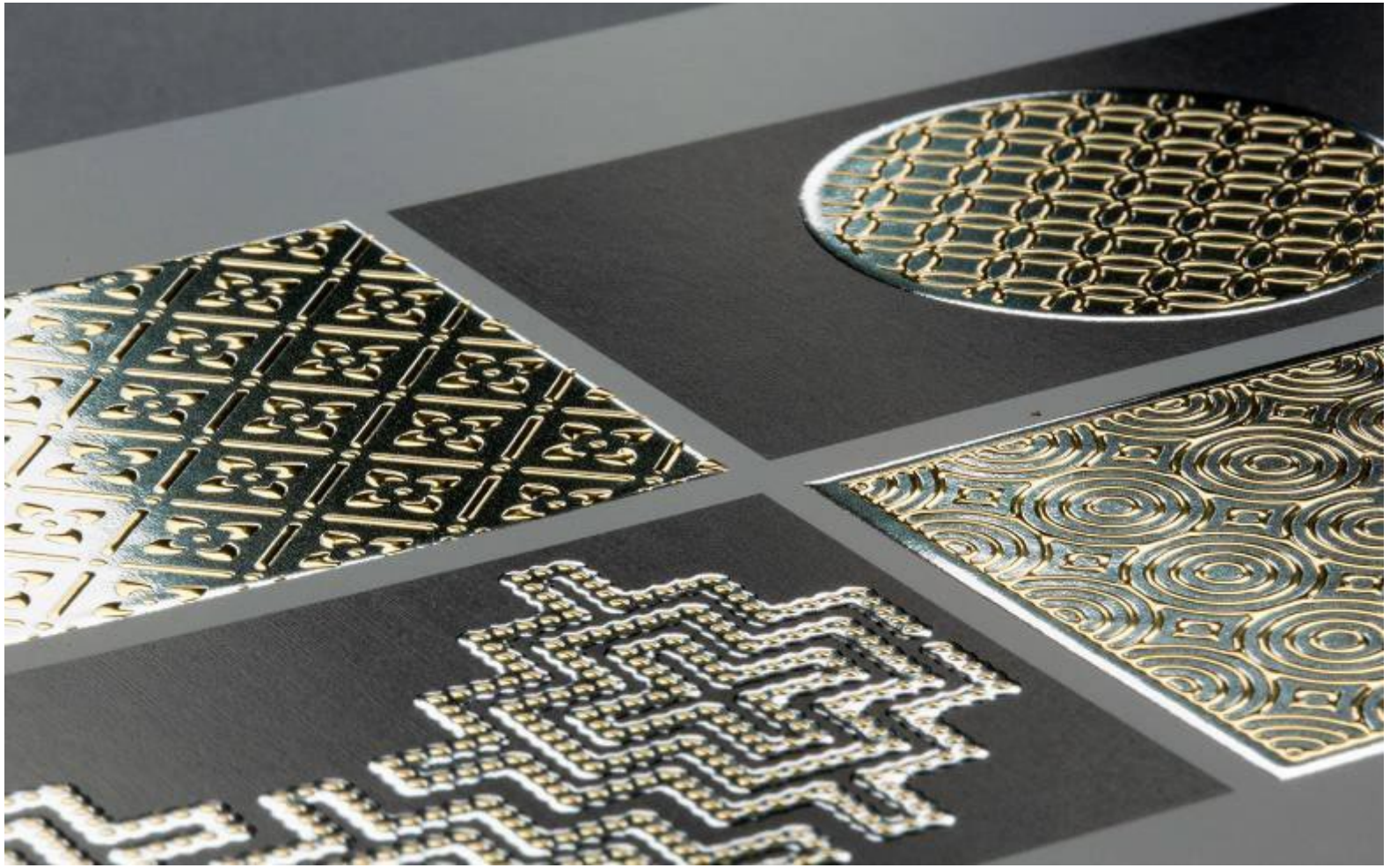


(Has CMYK under it to make up for the uncoated texture of the sheet)

Foil on Foil | 2 Passes

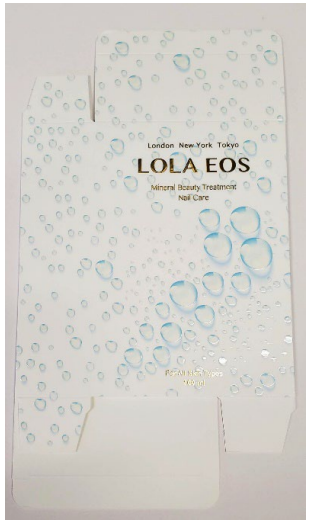
Digital Foil

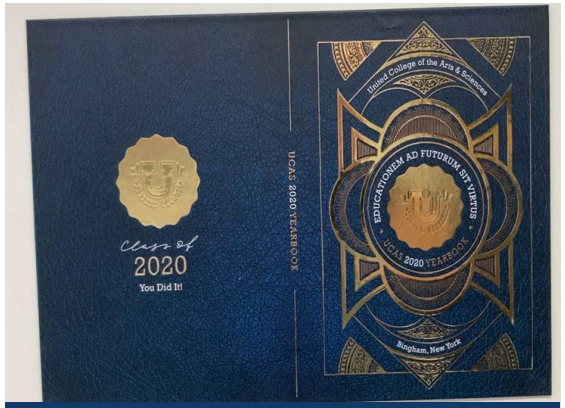
Foil on Foil



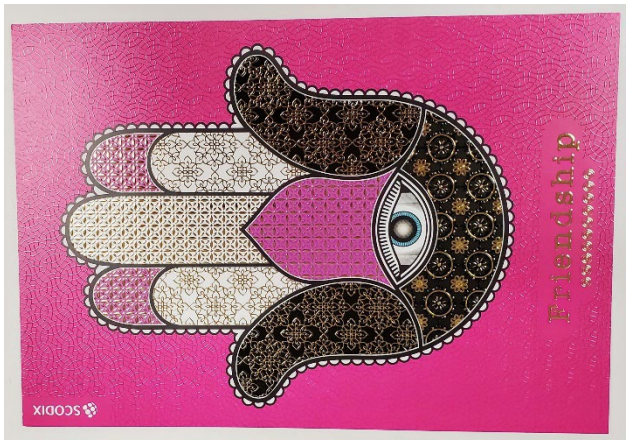
Digital Sense
Digital Foil

2 Passes

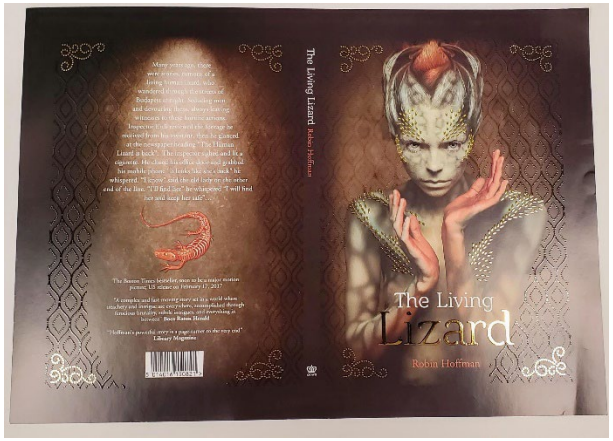


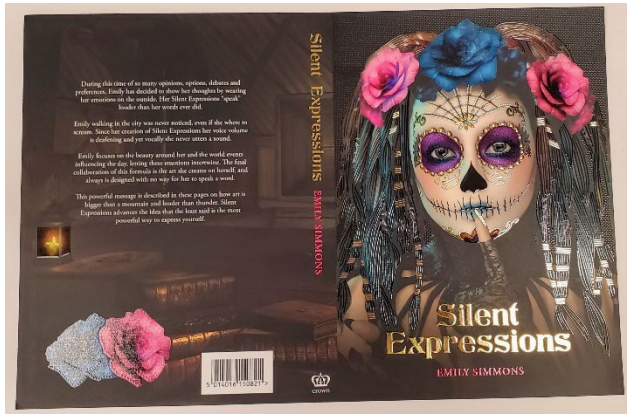


Engraved Foil | different levels of polymer



Includes a section of Spot on the headphones.





Blind Sense

Digital Cast&Cure

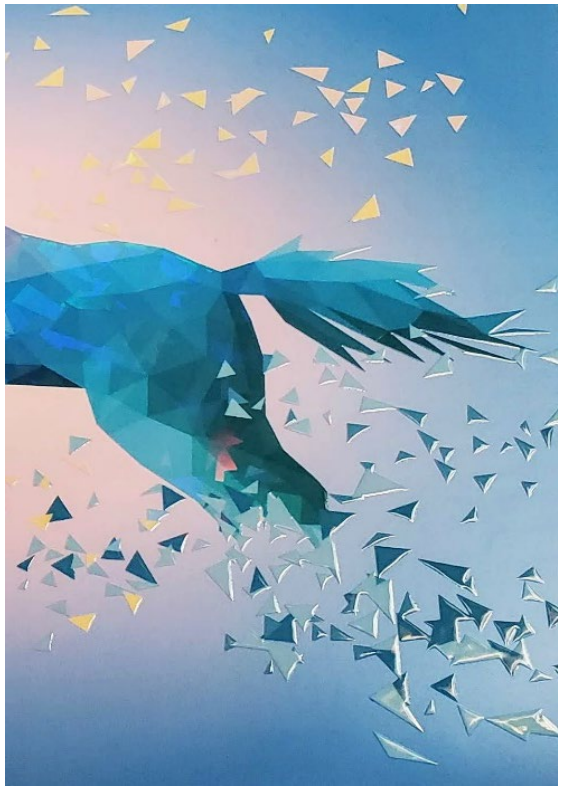
1 Pass

Process:

- The circle created with black ink
- about 15 microns of polymer dropped onto area
- Touch the surface of the polymer with the cast and cure film just enough to imprint.
- The machine then cures it.
- It works well because of the height, which creates depth in the application.
- This film had a triangle pattern to it. They come in many different patterns

Digital Cast&Cure

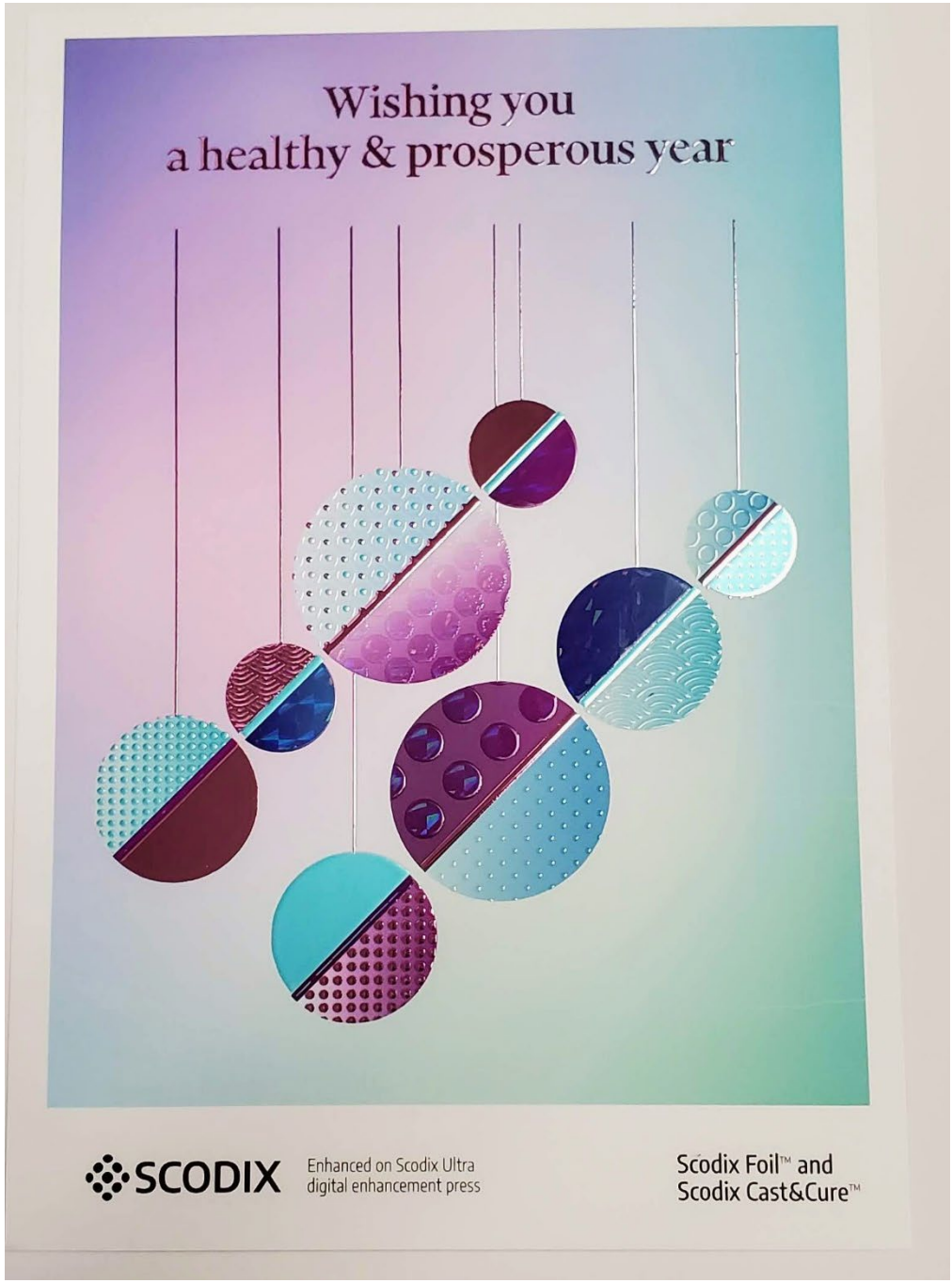
1 Pass



Digital Foil
Digital Cast&Cure

2 Foils | 1 Cast&Cure

3 Passes

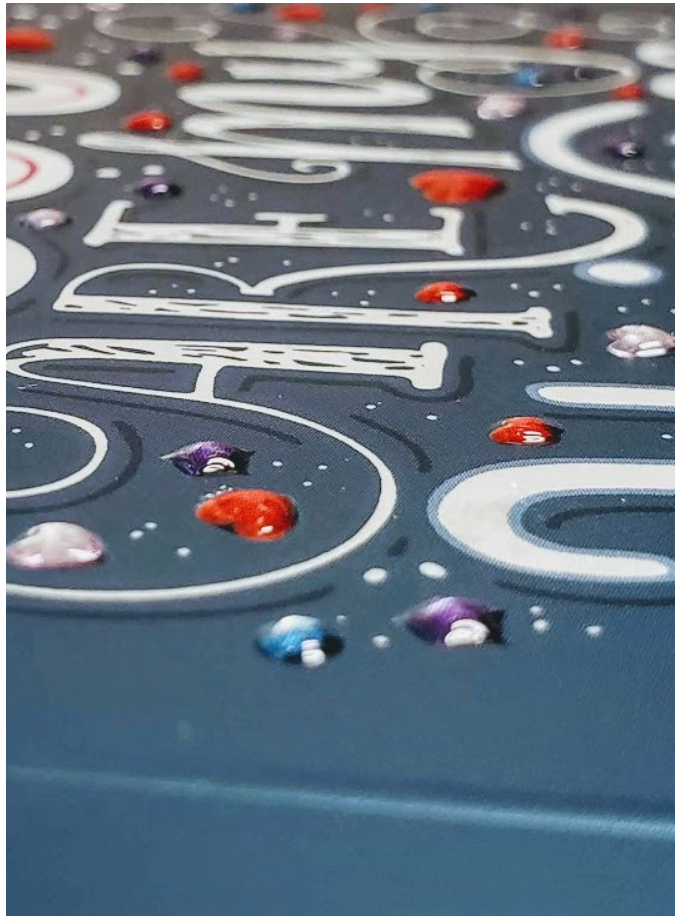


Digital Crystal

Multiple Passes

Process:

- Print is applied in the shape and color of the desired crystal
- Digital **Sense** art is created like a pyramid to achieve a 3D effect
- The printed sheet receives multiple passes of Digital **Sense** to achieve a 3D effect



Digital Glitter

2 Pass

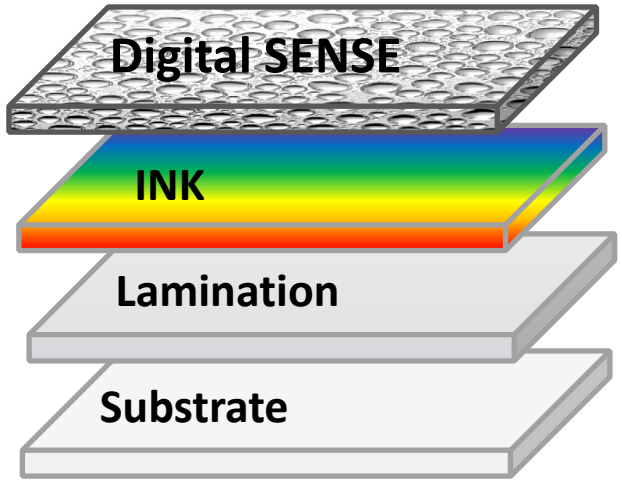
Digital Glitter is a foil. With a pass of sense to “disrupt” the surface. OR 2 Passes of Foil as a texture

Metallic Stock
Digital Sense

1 Pass

Digital Metallic Process

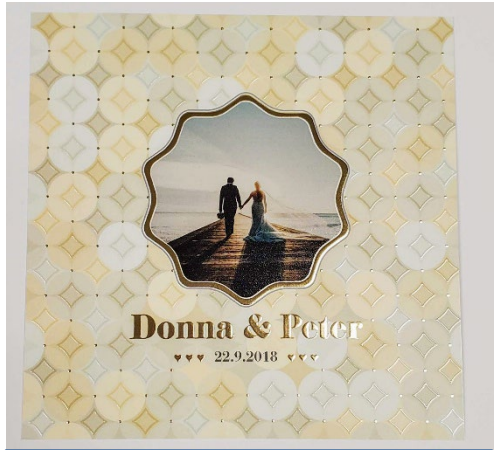
- Metallic lamination is applied to the sheet.
- Print is applied onto the sheet.
- The sheet receives one pass of Digital **Sense**



Digital VDP/VDE
Digital Foil

Name Personalization

1 Foil 1 sense | 2 pass



1 Foil 1 sense | 2 pass

1 Foil | 1 pass

2 Foil | 2 pass

Digital VDP/VDE
Digital Foil

Design
Personalization

1 Pass

This is the same CMYK box with variable design enhancement on each one.

They can be enhanced in the same digital run. The first box could be sheet one. The second box, sheet 2. Third box, sheet three and so on.

Digital VDP/VDE
Digital Foil

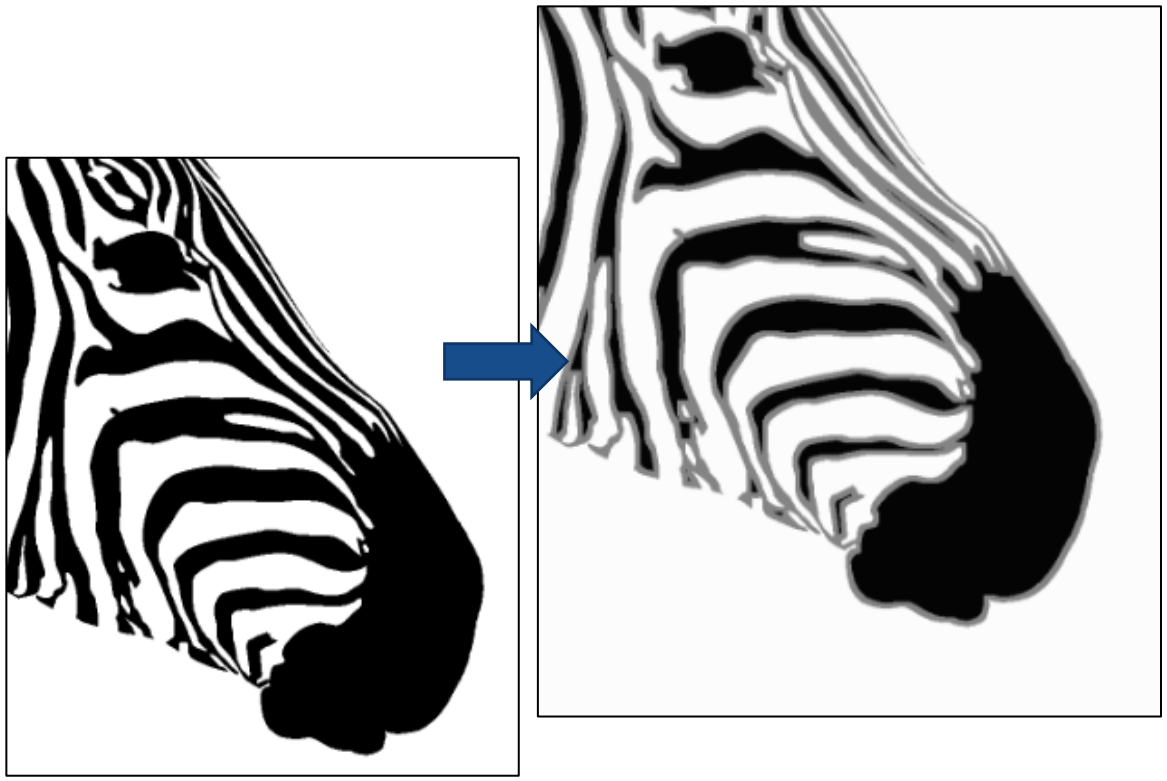
Name
Personalization

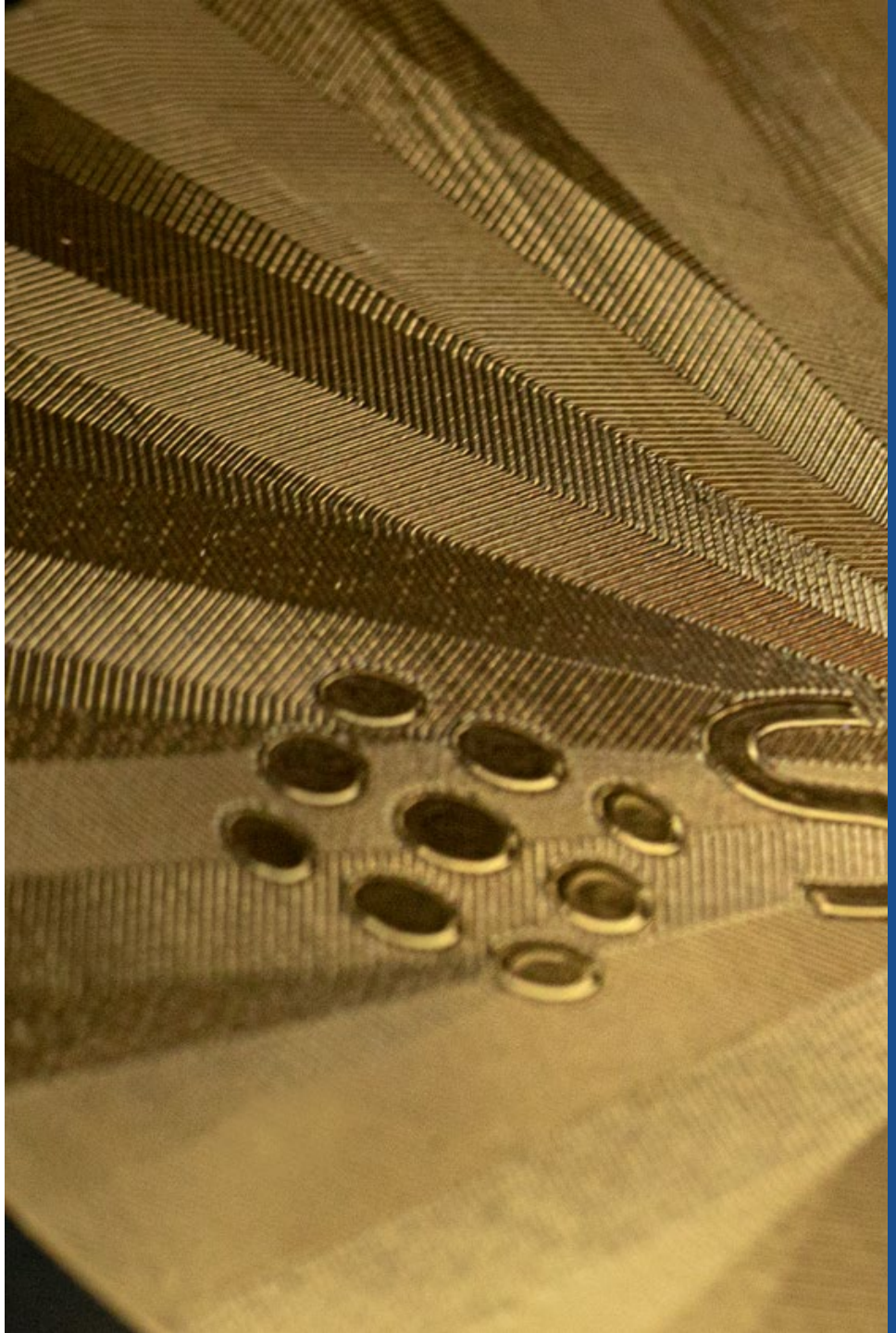
1 Pass

They have the same CMYK print with Different Scodix Designs

SHD Specifications

- Automatic identification of single or multi drop
- This application allows us to hit levels of detail we couldn’t hit before.
- More comparable to hot stamping without the need for dies.





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Digital


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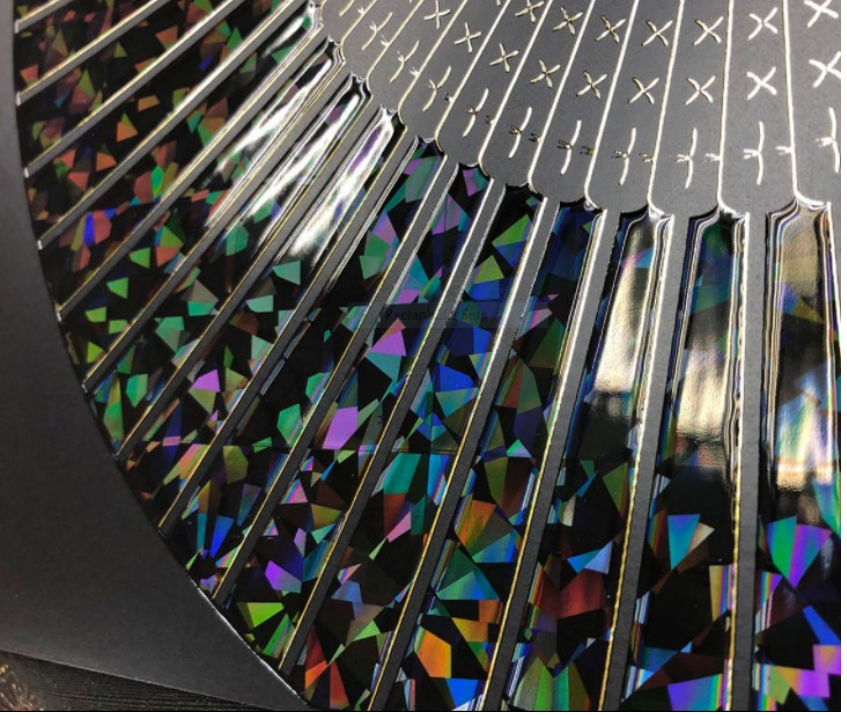


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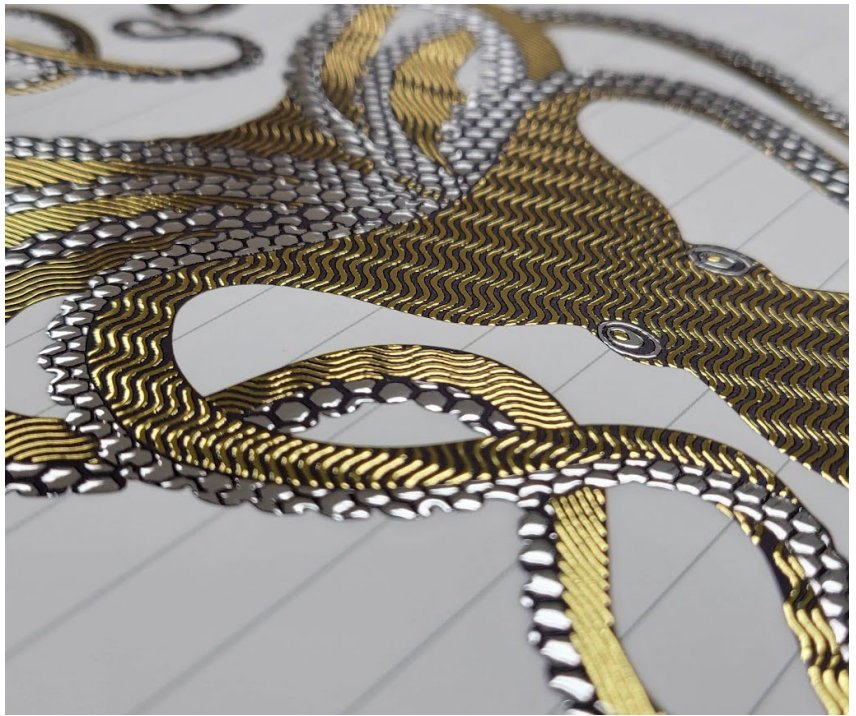

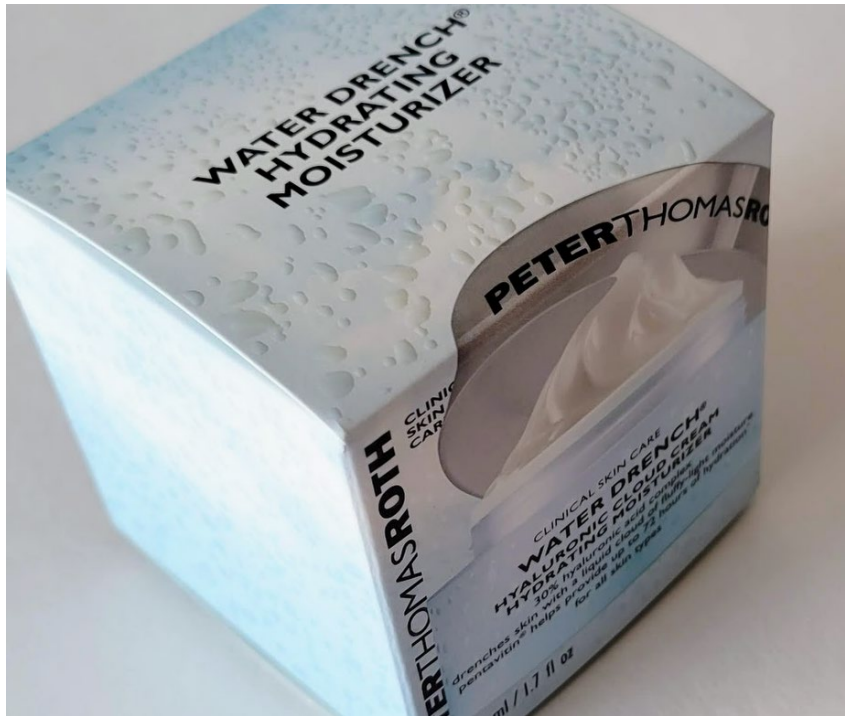
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and Made takes well-beloved
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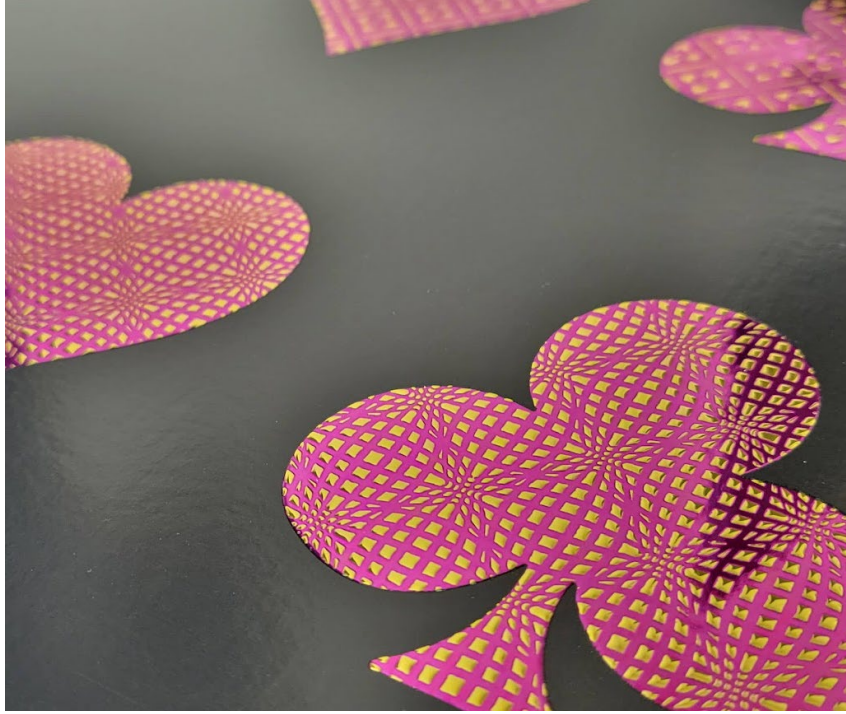
lying cry against
peration

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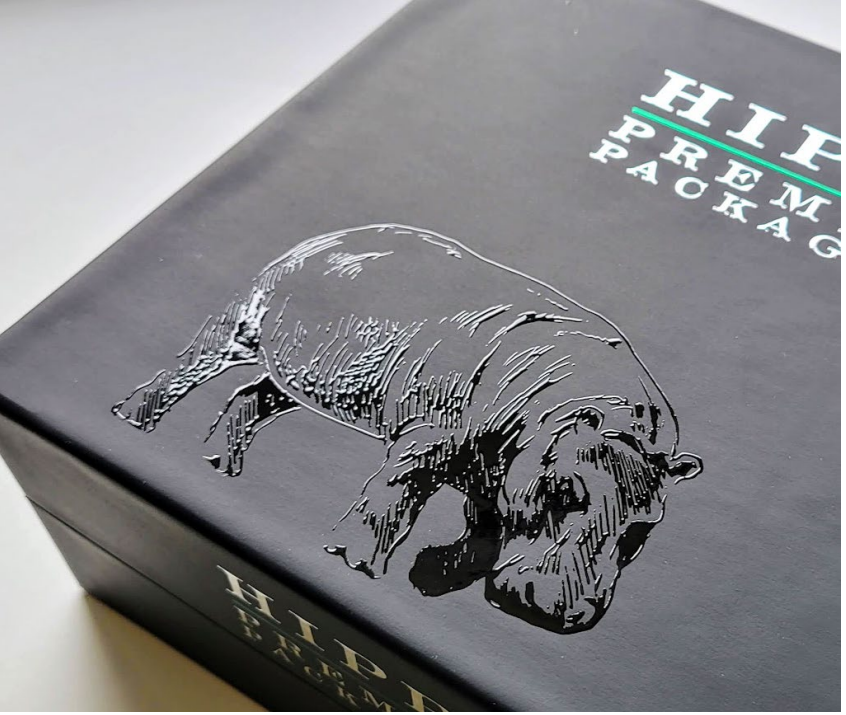
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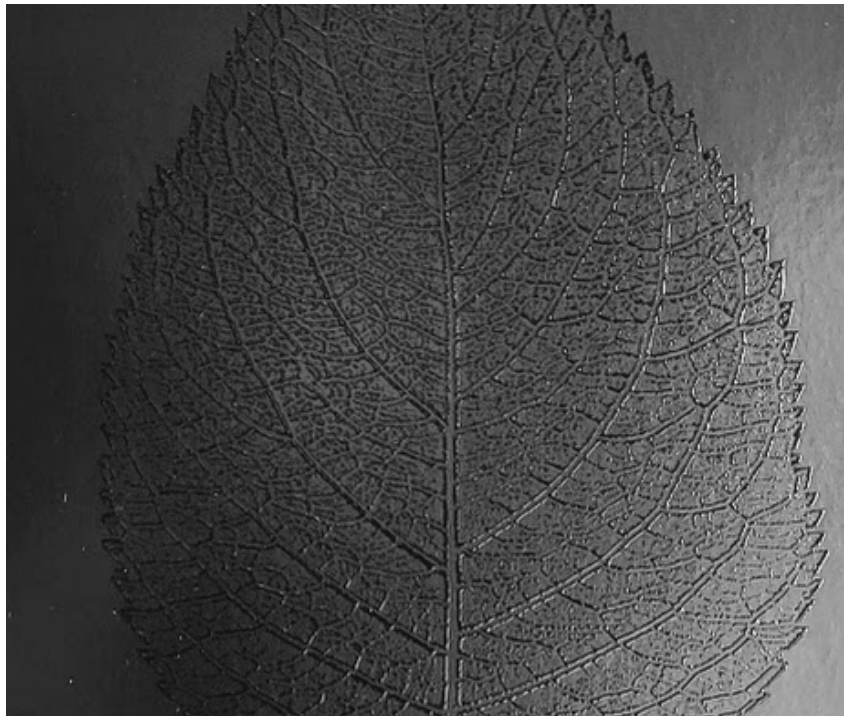

Have questions?

Contact katyg@lpipossibilities.com