



 **SCODIX**  
SUSTAINABILITY INITIATIVES



# SUSTAINABILITY

Scodix is recyclable and deinkable.  
Scodix is proven more environmentally friendly.



Sustainability has always been a driving factor for the creation of Scodix digital embellishment technology through the elimination of tools and dies, harmful chemicals, and make-ready. Prioritizing visibility, Scodix has been investing in environmental certifications and testing. The two key areas that were investigated were our overall global footprint with a Life Cycle Assessment and the recyclability and deinkability of decorated sheets. The results of this testing demonstrates the overall mission of Scodix in bringing sustainable, economic, productive embellishment to print.

## 2023 RECYCLABILITY TESTING



### SBS Equivalency (WMU SBS-E) Testing Protocol

In Spring and Summer of 2023, Scodix underwent a series of testing with Western Michigan University. This testing was to determine the effect of digital embellishment as it processed through recycling in terms of deinkability and recyclability in order to satisfy FTC guidelines, a reputable certification for brands.

FTC guidelines (FTC Greenguides § 260.6 Certifications and Seals of Approval) requires a recyclable symbol by manufacturers from a third party independent testing agent for certification. WMU Pilot Plants qualify as a FTC third party testing facility.

The Scodix testing test was performed on 16pt SBS Westrock Printkote C1S paper with 15% coverage of decoration. Industry average is 5% decoration for average embellishment projects.

### The Results

	Trial #1	Trial #2
1. For both treated and untreated were the substrate, samples, specimens appropriate? (Y/N)	Y	Y
2. Fibre Yield 80%? (Y/N)	Y	Y
3. Operational impact acceptable? (Y/N)	Y	Y
4. Product performance acceptable? (Y/N)	Y	Y
5. Product appearance/spot count acceptable? (Y/N)	Y	Y
Overall Pass / Fail - by trial: (Pass/Fail)	<b>PASS</b>	<b>PASS</b>



\*Source: Western Michigan University Scodix Printkote Huber Ink Recyclability Certification Results 6-13-23



# 2023 LCA

## Life Cycle Assessment

As of March 2023, we have completed a verified Life Cycle Assessment by Sher Consulting and Training, a Mérieux NutriSciences company. This process analyzed the main environmental impacts throughout the entire cycle of production while also comparing our process to traditional analog hot stamping over different increments of print quantity. We are happy to report the efficiency findings of this report, especially the documented, and verified, sustainability impacts on the production stream.

### SCODIX EMBELLISHMENT VS. HOT STAMPING

Impact Category	Variation	1	10	1K	5K	10K	25K	50K	100K	Unit Used
Climate Change Scodix Use as %	Efficiency	12.8	7.4	6.84	6.84	6.84	6.83	6.83	6.83	KG CO2e
	Savings	27.16	14.80	13.44	13.43	13.43	13.42	13.42	13.42	
	%	8%	13%	15%	15%	15%	15%	15%	15%	
Fossil Fuel/ Natural Resources	Efficiency	10.69	6.97	6.56	6.56	6.56	6.56	6.56	6.56	MJ
	Savings	314.80	194.10	180.80	180.70	180.70	180.70	180.70	180.70	
	%	9%	14%	15%	15%	15%	15%	15%	15%	
Water Use	Efficiency	7.34	5.34	5.12	5.12	5.12	5.12	5.12	5.12	M3
	Savings	33.83	23.17	22.00	21.99	21.99	21.99	21.99	21.99	
	%	14%	19%	20%	20%	20%	20%	20%	20%	

1. In terms of climate change, Printing a B1 page with Scodix is **7 times more efficient** than the traditional method.
2. In terms of climate change, Printing a B1 page with Scodix **saves 13 kg CO2e** compared to the traditional method.
3. In terms of climate change, Printing on a B1 page with Scodix **requires only 15% of the CO2e** required using the traditional method.



\*Source: EcamRicert srl and Sher Consulting and Training (Mérieux NutriSciences Companies), "Scodix LCA Assessment", 2023

## About Scodix

Scodix Ltd. is a leading provider of industrial digital print enhancement presses, delivering an economical, productive and sustainable option to print providers for stunning and luxurious decorative effects. Scodix PolySense™ digital enhancement eliminates the need for plates, molds, chemicals, and solvents positioning Scodix to replace traditional embellishment processes with an economic and eco-friendly solution certified for repulpability, recyclability and the lowest impact on climate change.

Scodix product decoration includes Scodix Sense™ embossing, Scodix Foil™, Scodix Spot™ varnish, Scodix Cast&Cure™ holographic effects, Scodix Crystal™, Scodix Metallic™, Scodix Glitter™, Scodix Braille™ and customized embellishment with Scodix VDE™ variable data.

The Scodix Ultra 5000 and 6000 Digital Enhancement presses, are suitable for packaging embellishments on thicker substrates and incorporate industrial pallet feeders and stackers, with the flagship Ultra 6000 offering a larger B1 format, the largest currently available on the market and Smart High Definition (SHD) precision. The Scodix Ultra 3000 and Ultra 4000 presses both incorporate Scodix W2P software, with the Ultra 3000 tailored towards Web2Print and the Ultra 4000 supporting Web2Pack applications.

These overall results support our message, that at Scodix, we care about the environment. To learn more about our other sustainability certifications, scan the QR code.



Scodix Foil



Scodix Sense



Scodix Spot



Scodix Braille



Scodix Metallic



Scodix VDP/VDE



Scodix Glitter



Scodix Crystal



Scodix Cast&Cure



Scodix SHD