

innovation inkubator



- Established in 1947
- Our backbone is in electroforming (nickel, copper etc.)
- We have world wide presence with local service

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Our main objectives to develop a (nickel) sleeve:

- Improve the speed to market
- Contribute to sustainable profitability and growth of gravure printing technology
- Avoidance of chrome
- Safety
- Smaller footprint

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History:

1993

- Introduction of the first generation gravure sleeve
 - Ni-Cu-Cr
 - Savings in transportation is the main success driver



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History:

March, 2012

- First announcement of the EcoSleeve[®]
Ni-monolayer
 - Independent point of engraving → flexibility
 - Green solution → recyclable

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History:

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 - Independent point of engraving → flexibility
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“In general we sense a slow acceptance rate of innovative Technology”

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- What is an EcoSleeve®?
 - Image carrier
 - Thin cylindrical nickel shell
 - With standard thickness of 0.012”



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- What is an EcoSleeve[®]?
 - Image carrier
 - Thin cylindrical nickel shell
 - Mounted on a base cylinder with compressed air



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Main benefits of the EcoSleeve®

1. Avoidance of chrome -6- end layer
 - a) Environmental/recyclable
 - b) Point of engraving

2. Speed to market
 - a) Short work flow
 - b) Easy engraving process

3. Light weighted
 - a) Reduction in transportation costs within the supply chain
 - b) Independent of form of transportation
 - c) Small footprint

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Where are we today?



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Where are we today?

1. Can you engrave in an EcoSleeve®?



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Where are we today?

1. Can you engrave in an EcoSleeve®?
2. Can you print with an EcoSleeve®?



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1. Can you engrave in the EcoSleeve®?



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1. Can you engrave in the EcoSleeve®?

Conditions:

- Production process and quality control
 - Controllable
 - Predictable
 - Green

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1. Can you engrave in the EcoSleeve[®]?

Conditions:

- Production process and quality control
- Diamond choice
 - With existing infrastructure
 - LX announced some high speed laser equipment

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2. Can you print with the EcoSleeve[®]?



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2. Can you print with the EcoSleeve[®]?

Nickel does not behave as chrome

- Different ink transfer (high)
- Different wipe behavior

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2. Can you print with the EcoSleeve[®]?

Conditions:

- Ink viscosity

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2. Can you print with the EcoSleeve[®]?

Conditions:

- Ink viscosity
- Doctor blade choice

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2. Can you print with the EcoSleeve®?

Conditions:

- Ink viscosity
- Doctor blade choice
- Influence the angle and pressure of the doctor blade

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2. Can you print with the EcoSleeve®?

Yes, you can.

Conditions:

- Ink viscosity
- Doctor blade choice
- Influence the angle and pressure of the doctor blade



Requires a case to
case application set
up

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Thank you for your attention.....

