

In-Line Foiling

A New Possibility
when Decorating
Glass Hollowware with
UV Inks



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Glass decoration

as seen by

a screen printing machine manufacturer

Demands on glass decoration:

Vibrant colors

High resolution

Eye-catching effects

Glass decoration with UV inks scores high in meeting these demands

But first: Glass decoration with UV inks works

Vibrant colors



UV inks
offer a large
color gamut

Colors do not
change during
curing

High resolution



UV inks can be printed using a fine mesh:

mesh count: 460 lpi (180 lpcm)

thread diameter: 27 μm

High Resolution

Screen printing photo-like images requires four colors: CMYK



Screen printing
of photo-like
images



For printing solids:

Inks flow quickly,
printed surfaces
have to be uniform



For printing halftones:

Inks do not flow,
printed dots keep
their shapes



Special inks create special effects

Thermochromatic inks

these inks change colors with temperature

The best known special effect
is probably a metalized image



But no shiny
metalized images
can be created
with UV inks

Hot stamping

can create metalized images

but the high pressure required makes it unsuitable for thin-walled glass hollowware

Are there other options?

ISIMAT and KURZ have developed a new process

in-line foiling

making it possible to create metalized images

The process

- Screen printing a UV curable adhesive
- Bringing the metalized layer of a foil in contact with the adhesive
- Curing the adhesive
- Over-varnishing the metalized image

Pressure is comparable to pressure exerted by screen printing

Resolution is comparable to screen printing

Tooling cost is comparable to screen printing

In-line foiled images

Surface quality and shine
equal hot stamped images

Edge definition is excellent

In-line foiled images do not deteriorate
during 500 cycles in a dishwasher

In-line foiling unit

Integrated into an ISIMAT screen printing machine

Exchangeable with a screen printing unit

Replaces a separate hot stamping machine

In-line foiled images
are eye-catching



In-line foiled images
on coated bottles



Can we customize the colors of metalized images ?

Custom-Colored Metalized Images

print your vision

ISIMAT



silver foil

Custom-Colored Metalized Images

print your vision

ISIMAT



silver foil



blue varnish



silver foil



blue varnish



blue image

Thank You

print your vision

ISIMAT



Thank you for your time and interest

Any question?