



Digital Embellishment Unit

Using digital technology to produce embellishment effects: varnishing and metallization.

This innovation is a joint development by three Swiss companies – Steinemann DPE AG, ACTEGA Schmid Rhyner AG and Gallus Ferd. Rüesch AG. The Digital Embellishment Unit (DEU) is able to carry out inline coating and metallization digitally using UV inkjet technology and apply matte, gloss and tactile spot coating effects as well as metallization effects to the substrate web in various thicknesses.

Matte and gloss effects and spot coatings

The Digital Embellishment Unit can produce gloss and matt spot coatings and tactile relief effects in a single pass, all using atmospheric UV inkjet coatings. It supports coating volumes up to 100 gsm with a resolution of 600 x 600 dpi (native/physical)

Metallization

After pinning the digitally applied coatings metallization effects can be realized with coldfoil technology. Flat as well as raised metallizations are possible.

In a single pass

As various matt, gloss and tactile varnish and metallization effects can be applied at the same time in a single pass, this unit replaces up to four conventional printing stations, thus multiplying the benefits. The resulting shortened web path also leads to further cuts in waste.



Your benefits:

- Matte & gloss effects
- Spot coatings
- Tactile effects
- Cost and time savings
- A single pass – from roll to finished label



Digital Embellishment Unit (DEU)

Technical Specs

- 600x600 dpi native
- Qualified applied varnish volume
 - 12gsm @ 100 m/min
 - 24gsm @ 50 m/min
 - 100gsm @ 13 m/min
- Register Accuracy +/- 0.1mm
- Varnish: Proprietary UV Inkjet varnish
- Automatic cleaning system
- Fast varnish fluid changeover (automatic flushing system)
- Pinning for haptic effects
- Curing System: UV Mercury

Available converting

- Gallus Labelfire 340

Platforms/Systems

- Other platforms are being evaluated

Applications

- Spot Gloss Varnish
- Spot Matte Varnish
- Haptic Effects
- Flat and embossed metallization effects with cold foil technology
- Multiple combined effects in one pass

All technical data represents approximate values. Technical data may vary depending on the machine configuration, job, web width, consumables, substrate and possibly other factors. Gallus reserves the right to make technical and other changes.