



Digital Embellishment Unit

Using digital technology to produce matte, gloss and spot coating effects

This innovation is a joint development by three Swiss companies – Steinemann Technology AG, Schmid Rhyner AG and Gallus Ferd. Rüesch AG. The Digital Embellishment Unit (DEU) is able to carry out inline coating digitally using UV inkjet technology and apply matte, gloss and tactile spot coating 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)

Efficiency

When using this DEU, customers benefit from shorter setup times and minimized cleaning work over conventional solutions. Thanks to the digital technology, there are no additional costs for tools, including tool production and management.

In a single pass

As various matt, gloss and tactile effects can be applied at the same time in a single pass, this unit replaces up to three conventional printing stations, thus tripling 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
- Metallic Doming
- 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.