

COIL COATING CURING OF PRE-VARNISHED SHEET METAL PRODUCTS



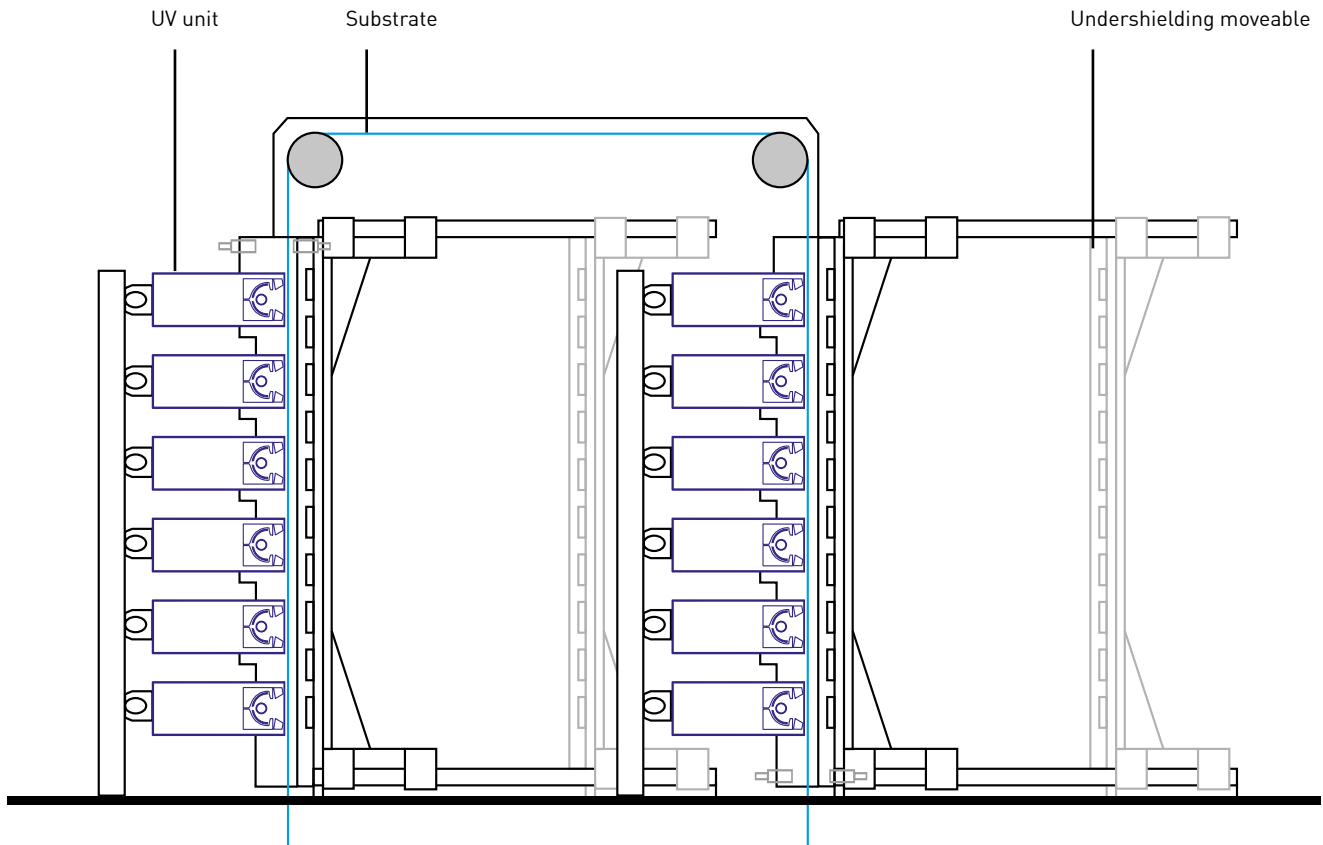
IST METZ offers laboratory and production plants for the Coil-Coating sector. The unit designs are worked out individually with the customer and are adopted to the local requirements. BLK® UV units are mainly used in this application. If the belt is guided sufficiently accurately, inert designs are also feasible.

The benefits of the UV-technology for the curing of pre-varnished sheet metal products for domestic appliances, for the building industry and for the automotive industry are evident:

- Environmentally friendly and solvent-free systems are used (100%-systems or water-based systems). This is most important in view of the VOC regulations.
- No thermal post-combustion is now required, the coater chamber does not need ventilation or extraction and the evaporation section becomes redundant.
- Reduction of space requirements for the drying units by 80-90%. An integration of UV-units into existing galvanizing lines with inline-varnishing is possible.
- Much lower use of energy, resulting in reduced operating costs.
- The UV dryer can be switched on and off at short notice.
- Fast, relatively cold curing of the coating/primer. This means significantly smaller coolers/significantly reduced cooling section for recooling the coil.



A unit layout for a production plant for the curing of UV primer/UV varnish could be the following one:



UNIT PARAMETERS:

Web width: up to 2.100 mm

Speed: up to 180 m/min

Coating: one-sided or two-sided

UV material:

- UV-cured scratch-resistant top coat on stainless steel (anti-fingerprint)
- UV-cured primer on galvanized steel
- UV-cured backing coating (UV backers)

SERVICE OF IST METZ

- Testing possibilities at the IST Metz Company
- Test set-up at customer possible with rented units
- Process technological assistance from testing to putting into practise
- Working out of unit concepts
- Working out of QM-strategies (UV-measuring technology, documentation, service and maintenance contracts)

∞ WE HAVE THE CURE

IST METZ GmbH & Co. KG
Lauterstraße 14-18 | 72622 Nürtingen | Germany
Tel.: +49 7022 6002-0 | Fax: +49 7022 6002-76
E-Mail: info@ist-uv.com

IST France Sarl | info@fr.ist-uv.com
IST (UK) Limited | info@uk.ist-uv.com
IST America - U.S. Operations, Inc. | info@usa.ist-uv.com
IST Italia S.r.l. | info@it.ist-uv.com
IST Benelux B.V. | info@bnl.ist-uv.com

IST METZ UV Equipment China Ltd. Co. | info@cn.ist-uv.com
UV-IST Ibérica SLU | info@es.ist-uv.com
IST Nordic AB | info@se.ist-uv.com
IST METZ SEA Co., Ltd. | info@th.ist-uv.com