

Modern 2 piece can manufacturing plants are increasingly turning to UV curable materials for Rim Coating applications.

UV Coatings provide enhanced protection and better slip characteristics to the rim base which helps improve line efficiency and dramatically reduce dusting particularly with aluminium cans

Features of IST Rim Coating Units

- **URS[®] inlay reflector technology**

URS[®] reflectors are what are known as cold mirror reflectors, fitted with more than 60 different metal oxide layers that only reflect the UV light and deflect the thermal radiation to a water-cooled profile. These highly resistant reflectors boast an extremely long service life and optimum heat management.

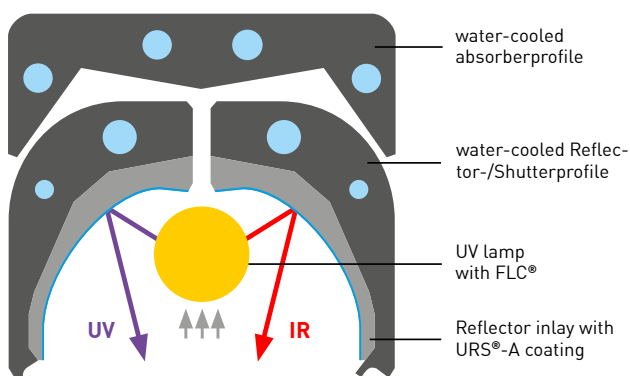
The reflector inlays are force-fitted to the unit, facilitating an easy replacement of the half shells. For example, simple replacement of the reflectors is interesting if the curing result can be improved by a different reflector geometry or coating for specific printing jobs.

URS[®]-A reflector promises high reflectance over the entire UV spectrum. It is especially suitable for use in the printing of steel plates, as it reflects a sufficient amount of IR radiation.

The resulting heat radiation aimed at the steel plates helps the inks and varnishes to cure. The URS[®]-A reflector also impresses with its very long service life.

- **Customised Design**

IST UV systems are individually designed for each application so that each customer's unique requirements can be taken care of from the beginning. Each IST system is fully tested in our workshop prior to dispatch and customers are welcome to view this part of the production process.



URS[®]-A reflector technology

- **Continuous Operation**

To allow for the occasional lamp failure IST can supply a additional lamp unit as part of the production system.

With this arrangement all lamps are run at a reduced power level and if one fails then the remaining lamps have their output automatically increased to compensate with a warning signal given to the line operator.

This unique approach ensures that line stoppages due to UV output problems are kept to a minimum.

- **UV-output measuring device**

IST has developed a mobile measuring instrument **UMD-2** for accurate measurement of UV energy in the same position that the cure takes place. The UMD-2 is positioned on the conveyor belt and the measuring data can therefore be determined after the unit has passed under the UV lamp.



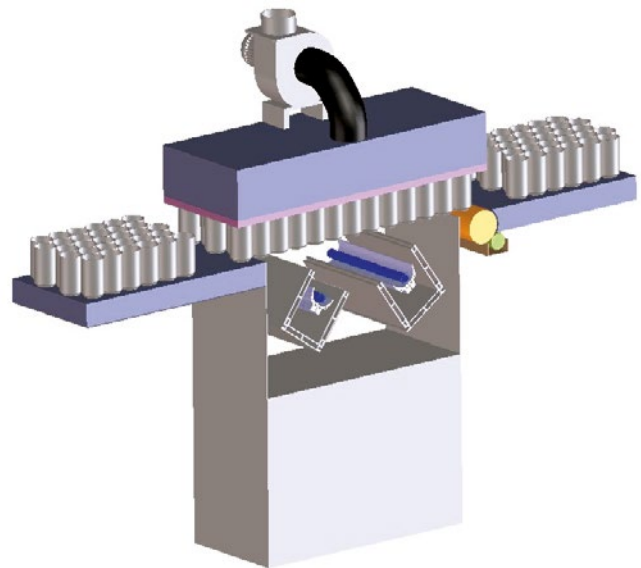
Measuring device UMD-2

- **Line Integration**

IST mechanical and electrical technicians are fully experienced with integration into existing production lines and can work equally well with your own technicians or external suppliers.

- **Easy Maintenance**

All components of the UV unit are easily accessible and lamp units have quick release couplings for all services so can easily be removed for maintenance. Spare lamp units can also be supplied so that regular maintenance can be carried out off-line.



Layout of typical a rim coating UV system

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