

It is important to maximise the production possibilities that new automation provides. IST UV solutions are designed with optimum reliability as a priority and this is achieved by incorporating outstanding heat management capability along with simple operation allied to quality design and manufacture which has become the hallmark of IST products.

Features of IST Set-Stack Units

- **High Output UV Lamps**

In order to satisfy the highest quality demands, all IST UV lamps are developed and manufactured in-house to rigorous industry leading quality standards, 160 or 200 W/cm lamps are available as standard. Also doped lamps are available for special applications without the need to exchange power supply components.

- **FLC® quick-change lamps**

The cordless FLC® UV lamp system enables lamps to be changed quickly and easily.

It is possible to remove the UV lamp from the lamp unit with just one hand movement and a lamp replacement just takes a few seconds, thus saving users several hours of machine availability per year.

- **Individual Lamp Units**

Single lamp housings with quick release couplings ensure individual control, easy handling and production flexibility plus retro-fittable upgrade possibilities up to 5 lamps.

- **Cooling System**

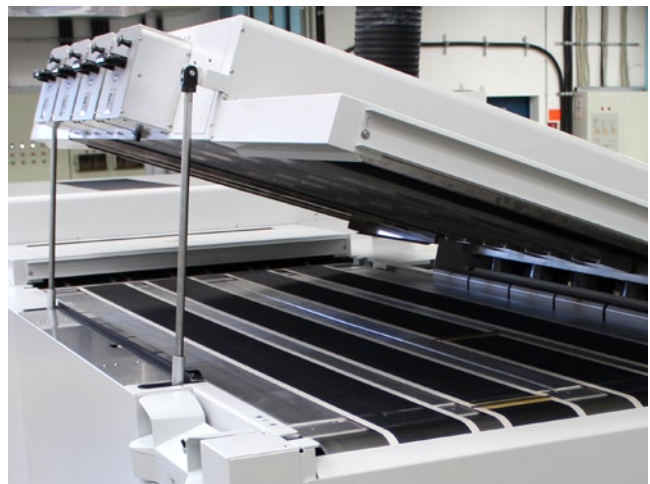
Water-cooled shutters and undershielding for unlimited stand-by and cool production conditions.

- **Easy Maintenance**

All components of the UV unit are easily accessible so cleaning and changing of lamps and reflectors can be carried out with the minimum of downtime by line operatives.

- **Transport System**

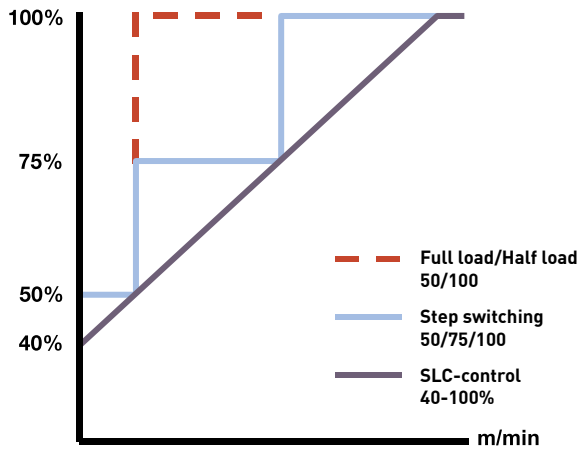
The plates are conveyed through the system via an adjustable vacuum conveyor belt. The speed of the conveyor belts can be varied to match the speed of the press, enabling high productivity and flexibility.



Further Features:

• SLC Stepless Lamp Control

The SLC lamp control gives operators the option to control lamp power not only in relation to press speed but also in relation to the demands of the job thereby saving energy.



SLC Power control (electrical lamp control ELC available)

• 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.

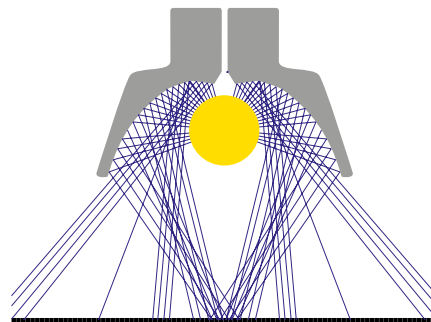


Measuring device UMD-2

• Reflector Patterns

Arc lamp technology allows the designer a wide choice of reflector patterns. IST METZ has developed a selection of reflector patterns to meet the needs of various processes: standard and URS®-A reflectors.

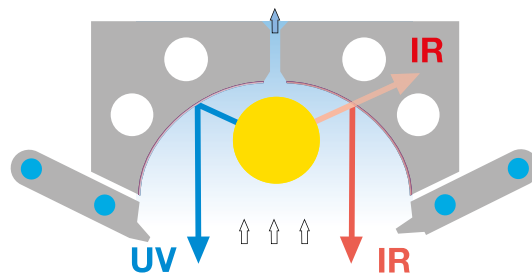
The standard reflector is manufactured from extruded aluminium profiles. Due to the excellent reflective properties in the short-wave UVC range, the reflective surface is coated with pure aluminium by means of vapour deposition. It is also coated with a layer of silicon oxide. This protects against corrosion and mechanical stress.



Standard aluminium reflector

The 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.



URS®-A reflector system

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