

Hotmelt PSA

Application fields of UV acrylates



- Labels
- Adhesive tapes
- Automotive supplier industry

Why UV Hotmelts?



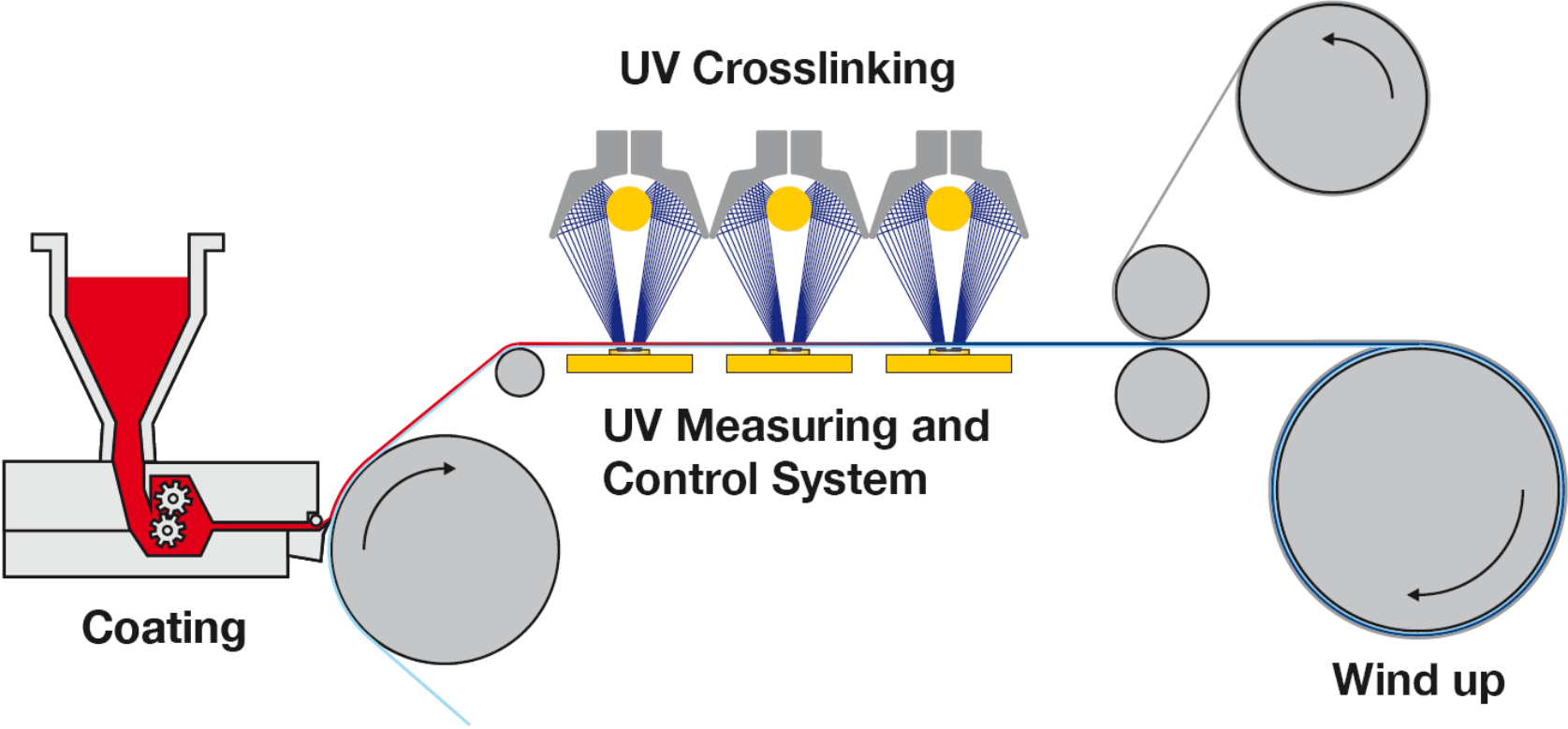
- Heat stability → Application of labels / bands at higher T
- Maturing stability → No brittleness and no yellow turn due to UV / O₂
- Moisture resistance → Application of labels / bands in a moist area
- Treating properties → Lower treating temperature as with SIS-Hotmelts
- Ecology / Toxicology → No emission of solvents
- Variable degree of curing → One raw material for a lot of glue types

Advantages of UV acrylates

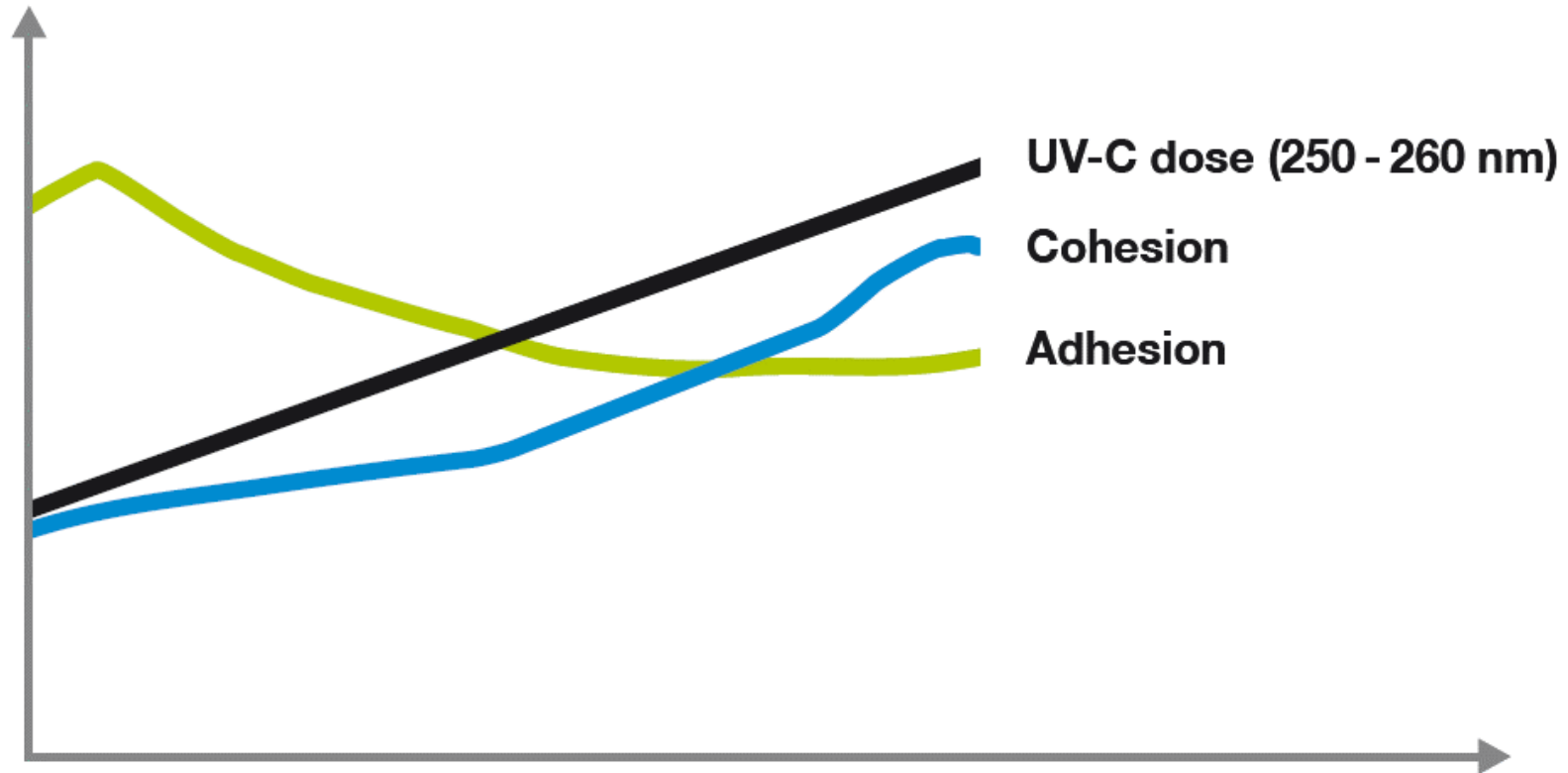


- High ecological safety
- High production speed even for larger job lots
- Excellent maturing behaviour
- Excellent heat and moisture resistance
- Simple handling with usual Hotmelt coating units

Processing UV acrylics



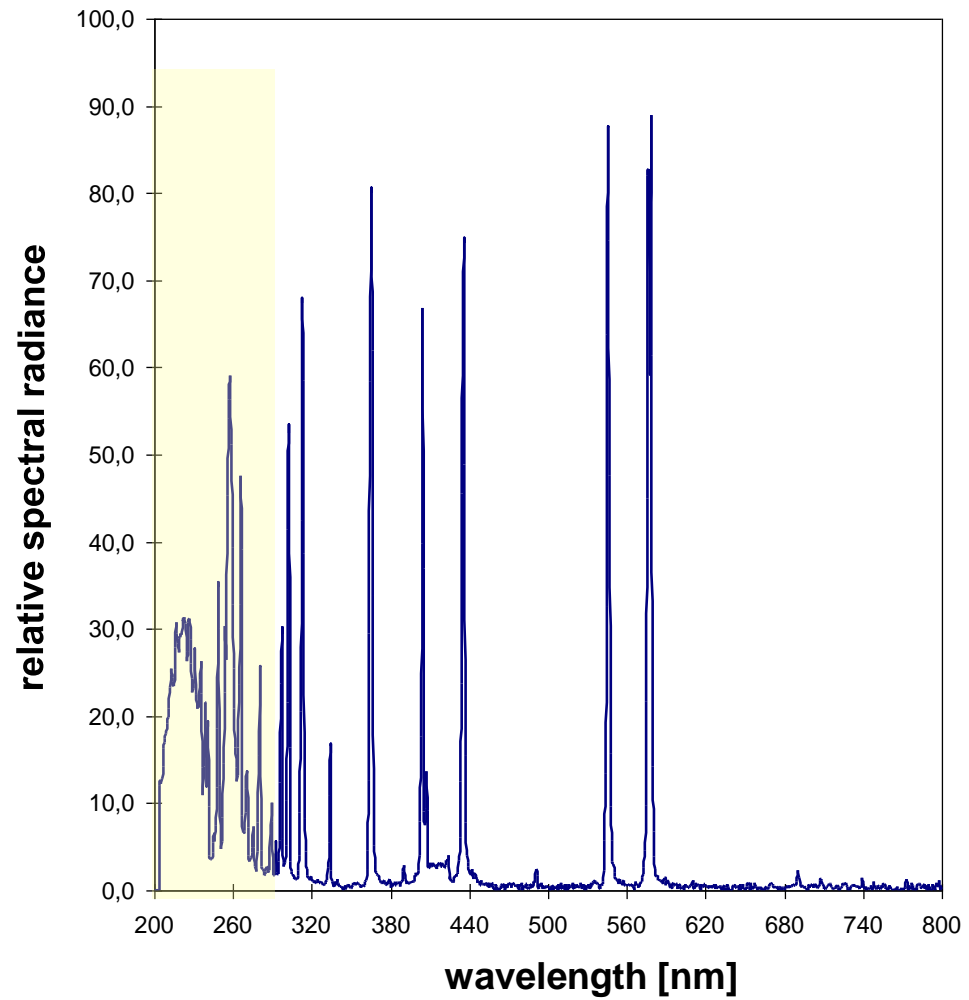
Crosslinking / adhesive features



UV lamp

Spectrum type CK

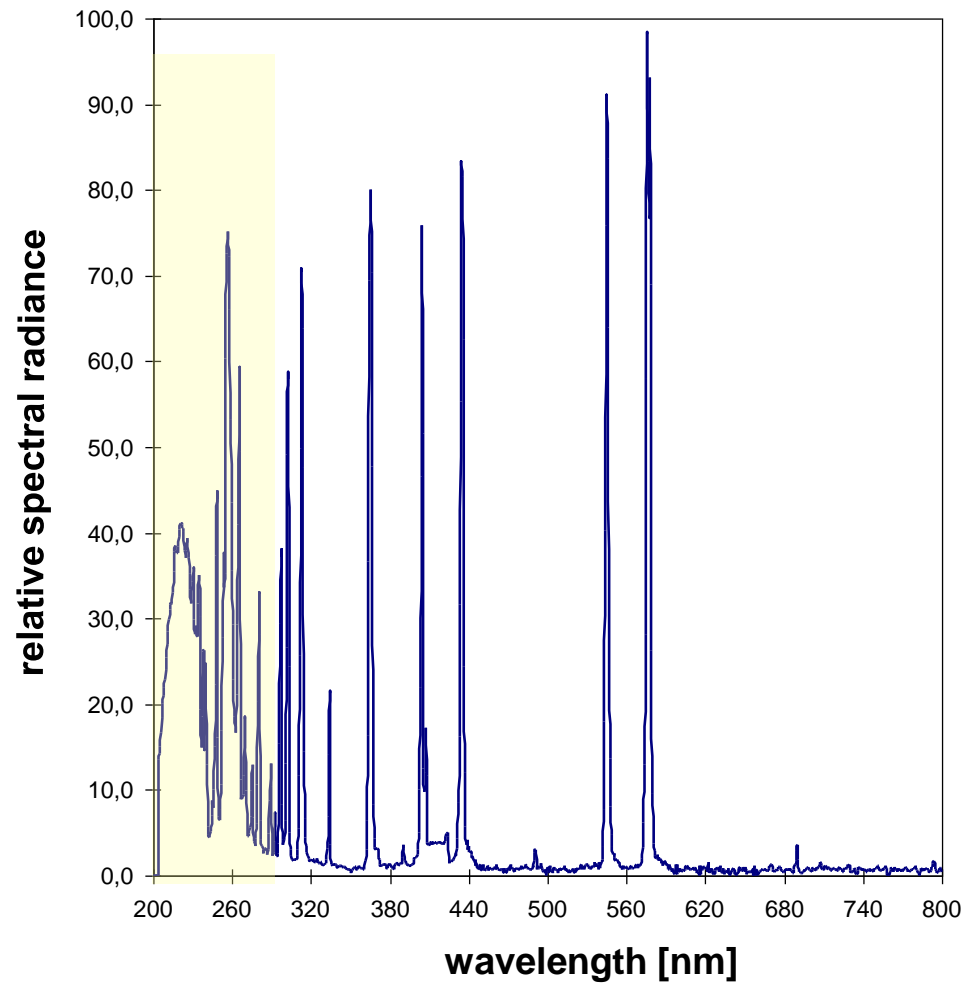
— CK
Base: 160 W/cm



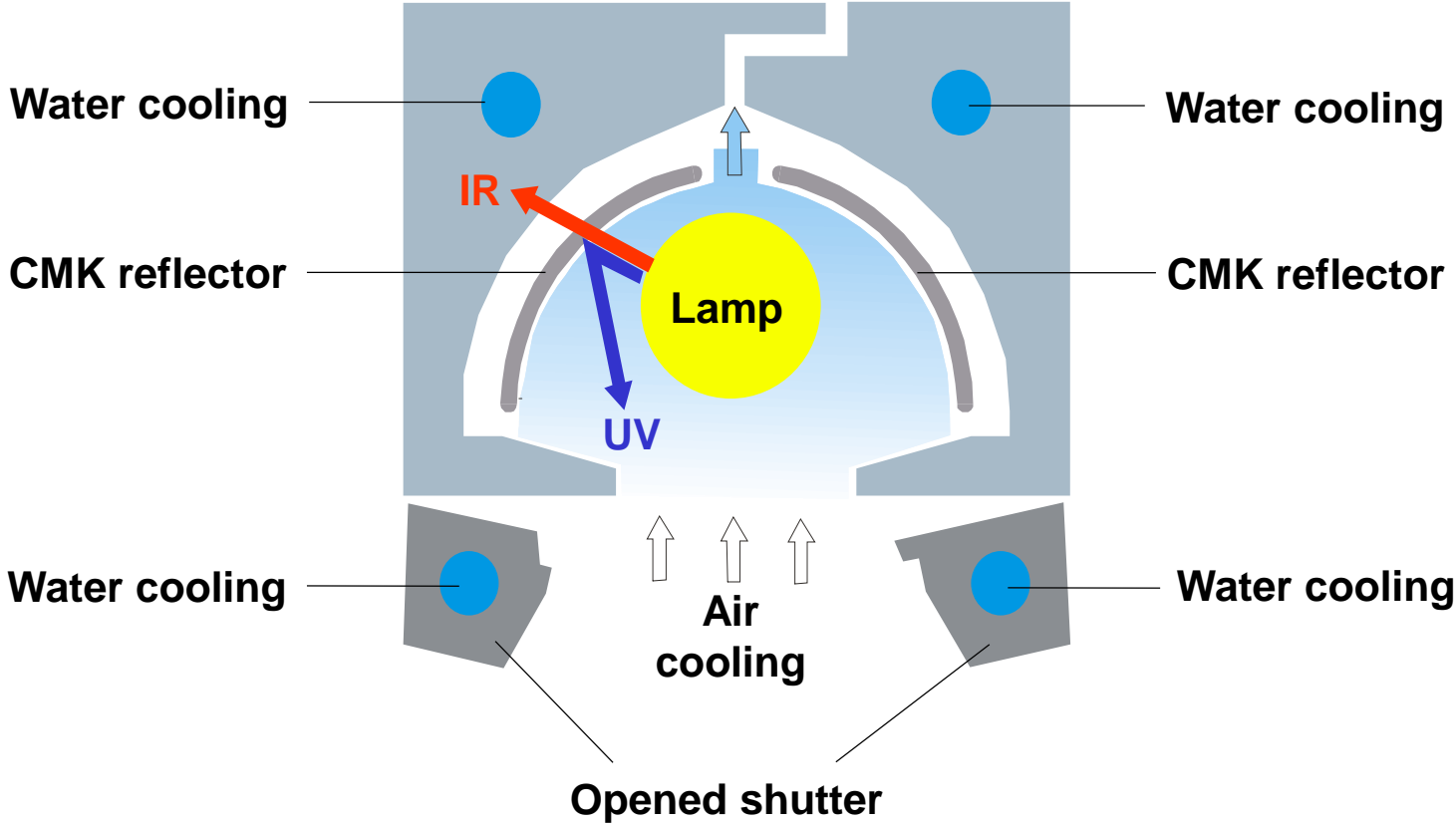
UV lamp

Spectrum type CK

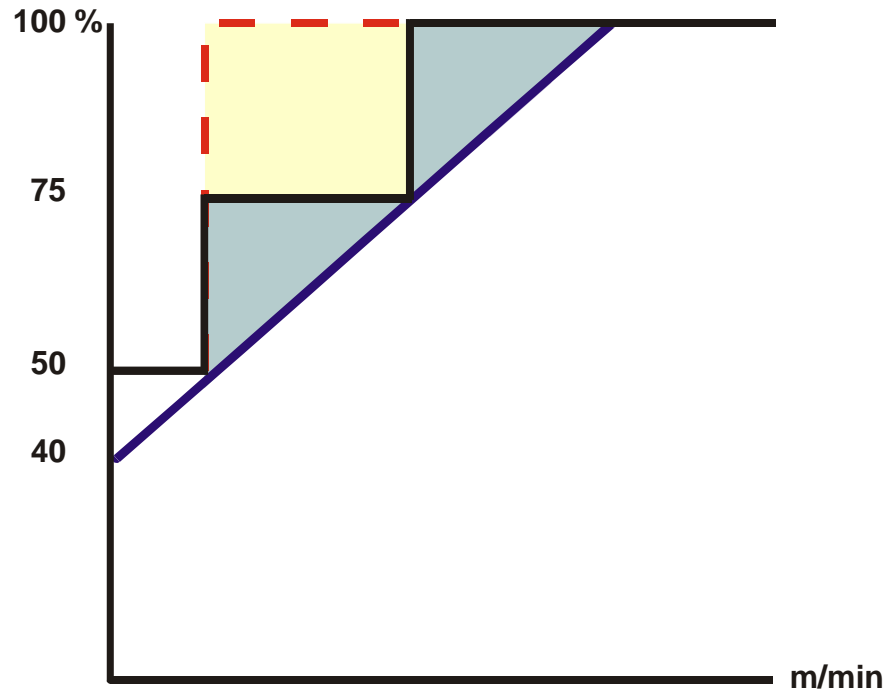
— CK
Base: 160 W/cm



UV drying equipment



SLC power control



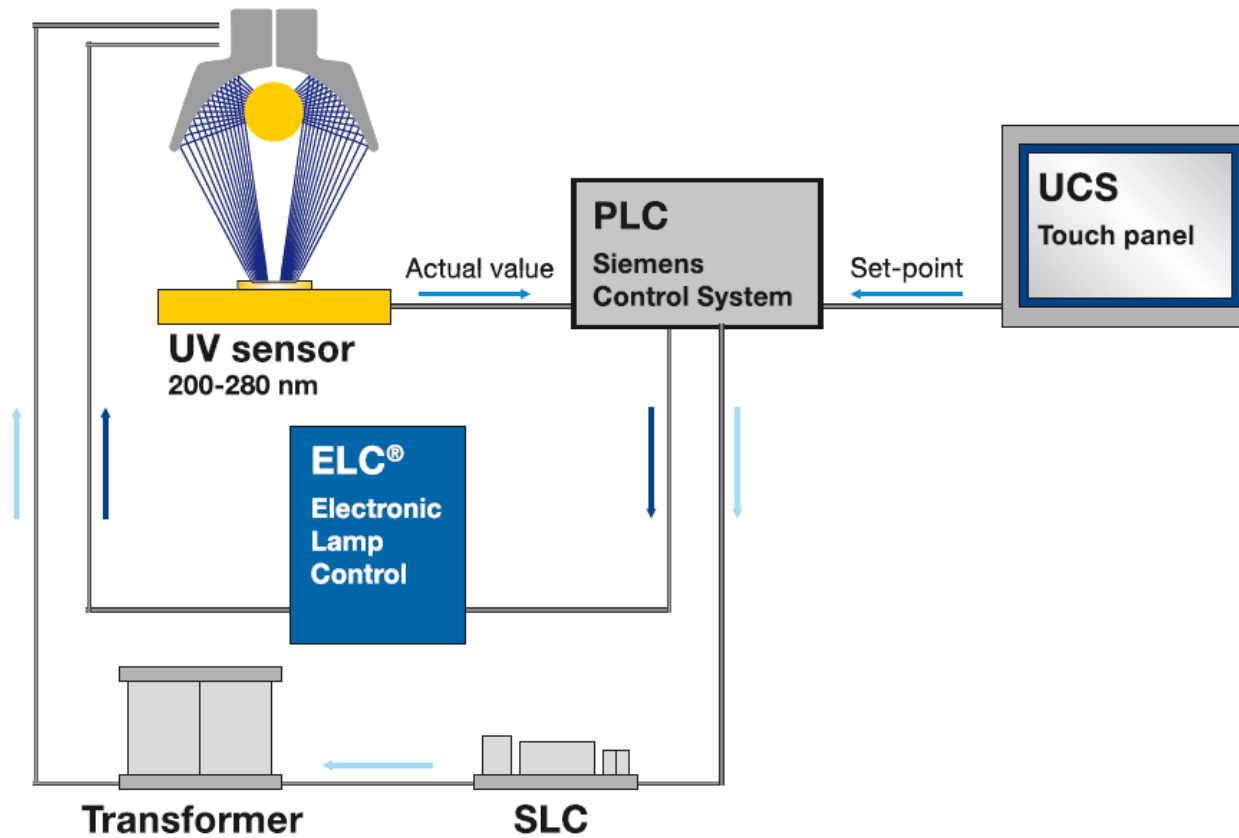
- Step switching
50/75/100
- - - Full load / half load
50/100
- Stepless lamp control
SLC

- **Benefit SLC:**

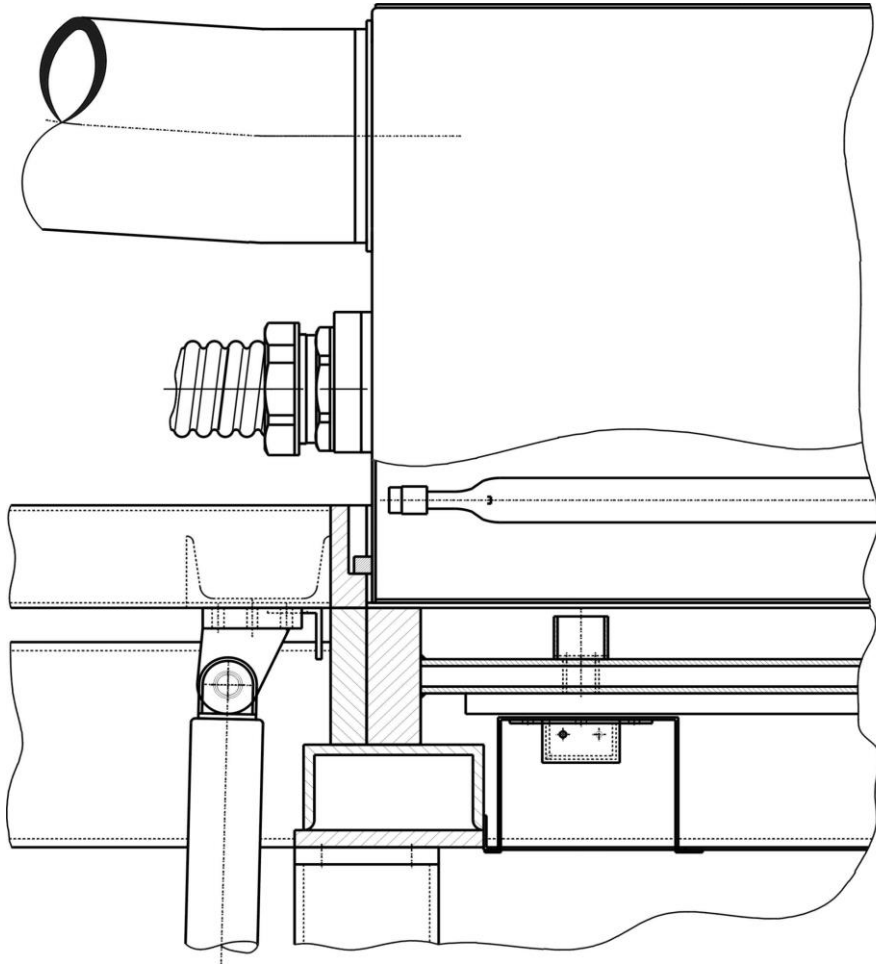
The energy required at the moment can be adapted to the production speed.

UV measuring and control

UV measuring and control either with transformer (KVG) or with ELC[®]



UV measuring sensor

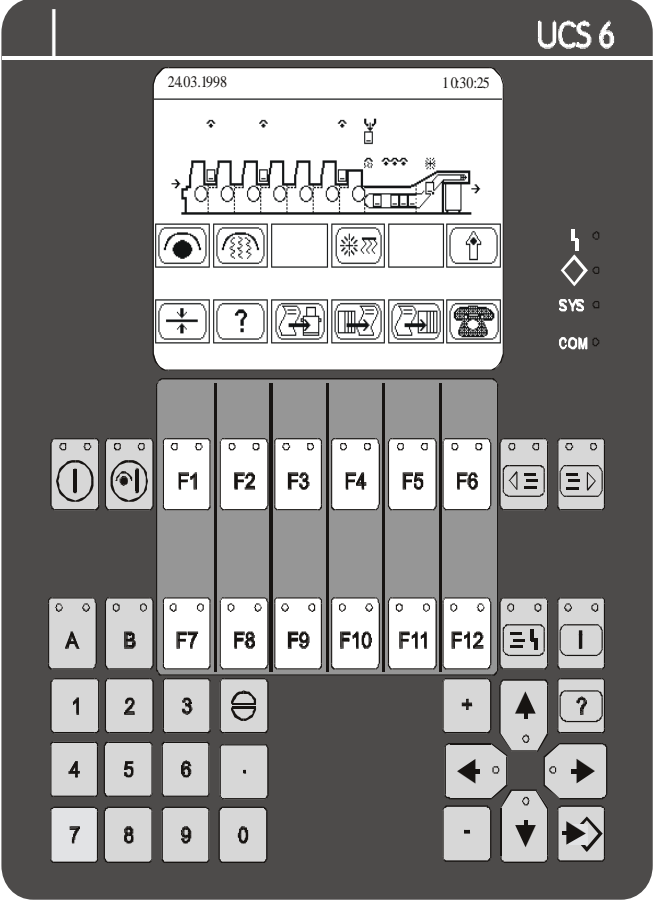


Sensor

measuring area:

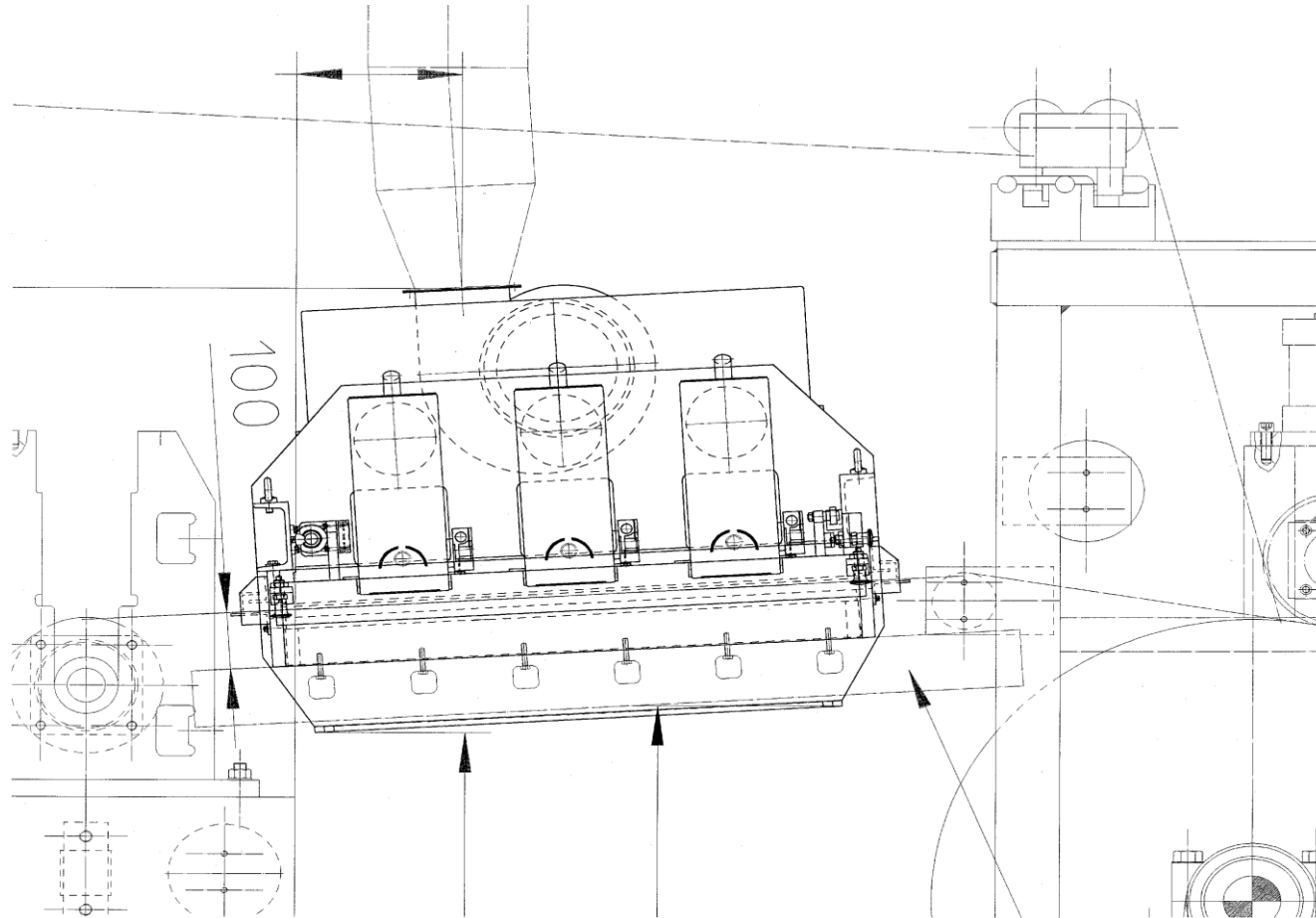
200-280 nm

UCS 6 Display



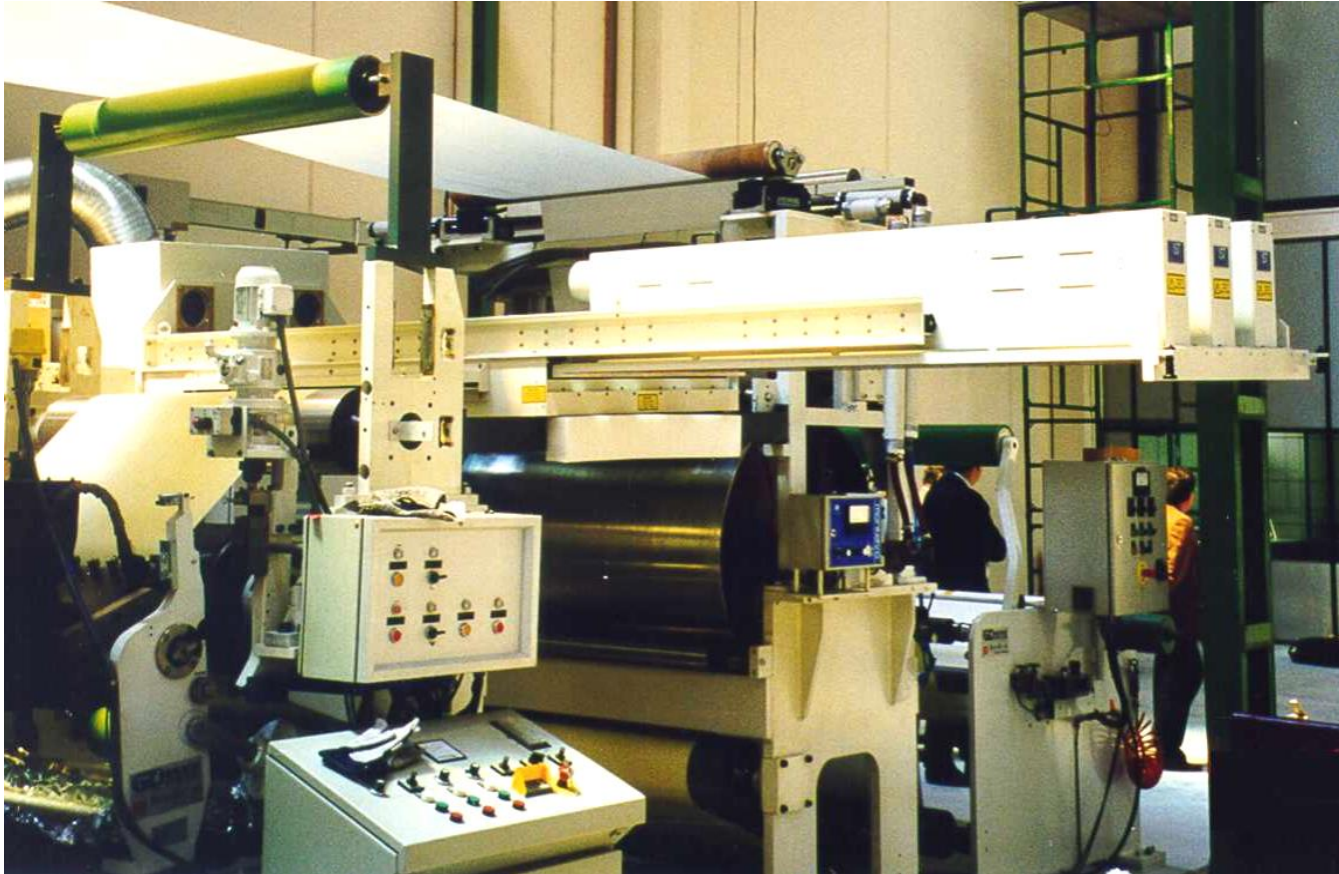
UV unit: polymerisation of Hotmelt PSA

- Labels -



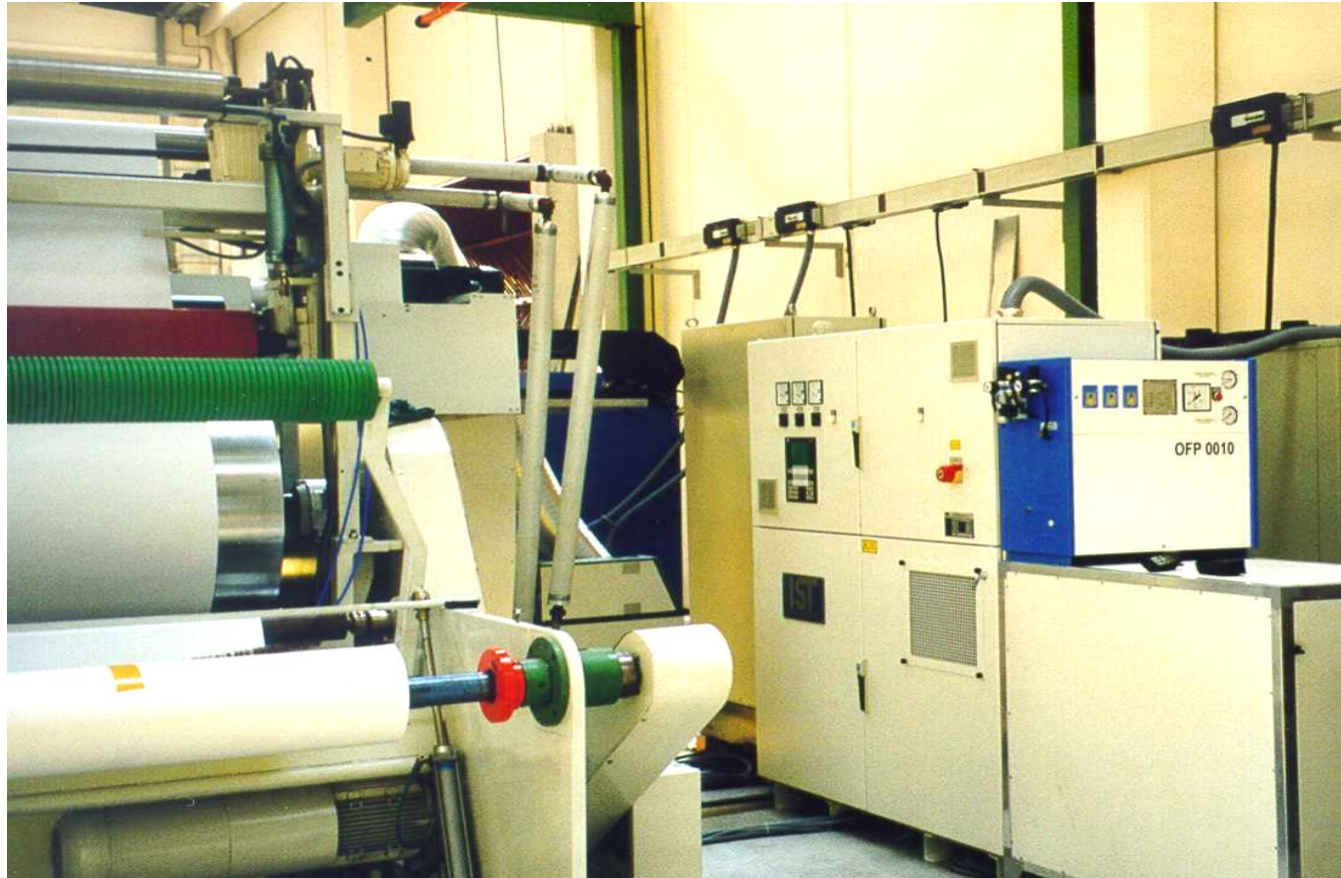
UV unit: polymerisation of Hotmelt PSA

- Labels -



UV unit: polymerisation of Hotmelt PSA

- switch cabinet, compressed air supply, cooler -



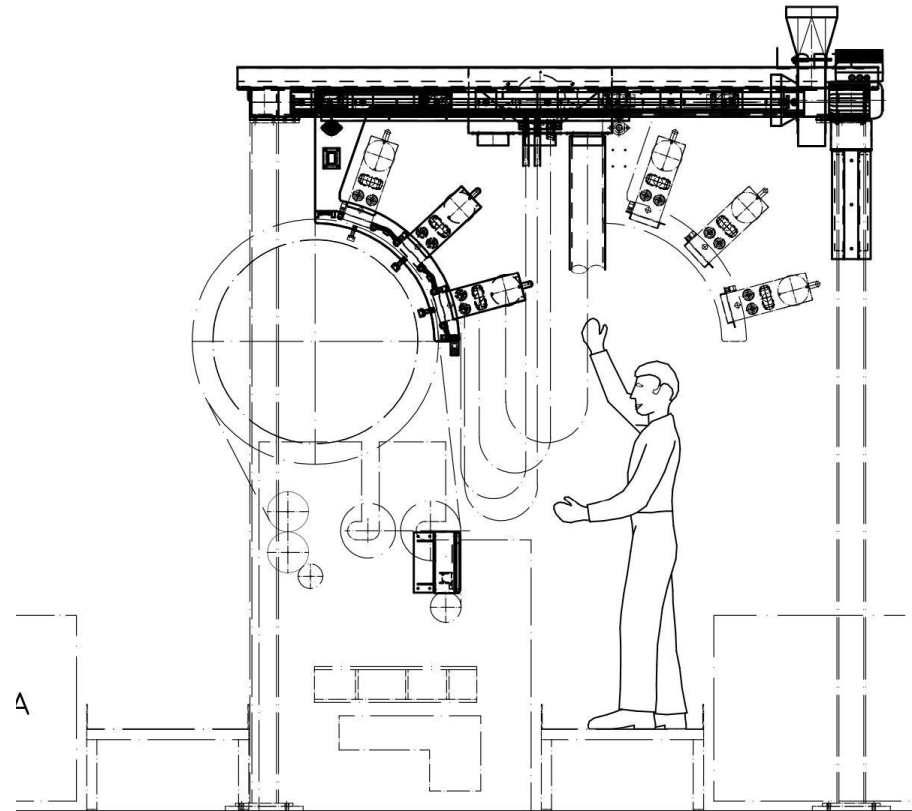
Project Hotmelt PSA

E-220-2(3)-BLK[®]-SLC

- UV units over a chill roll
- 2 lamp system 140 W/cm
- UV measurement and control

Application:

- Curing of acrylic UV Hotmelt PSA
- For plastic PT, BOPP, PET etc.
- Thickness from 20 to 100 microns
- Speed: 20 to 60 mpm



Project Hotmelt PSA

E-220-2(3)-BLK[®]-SLC

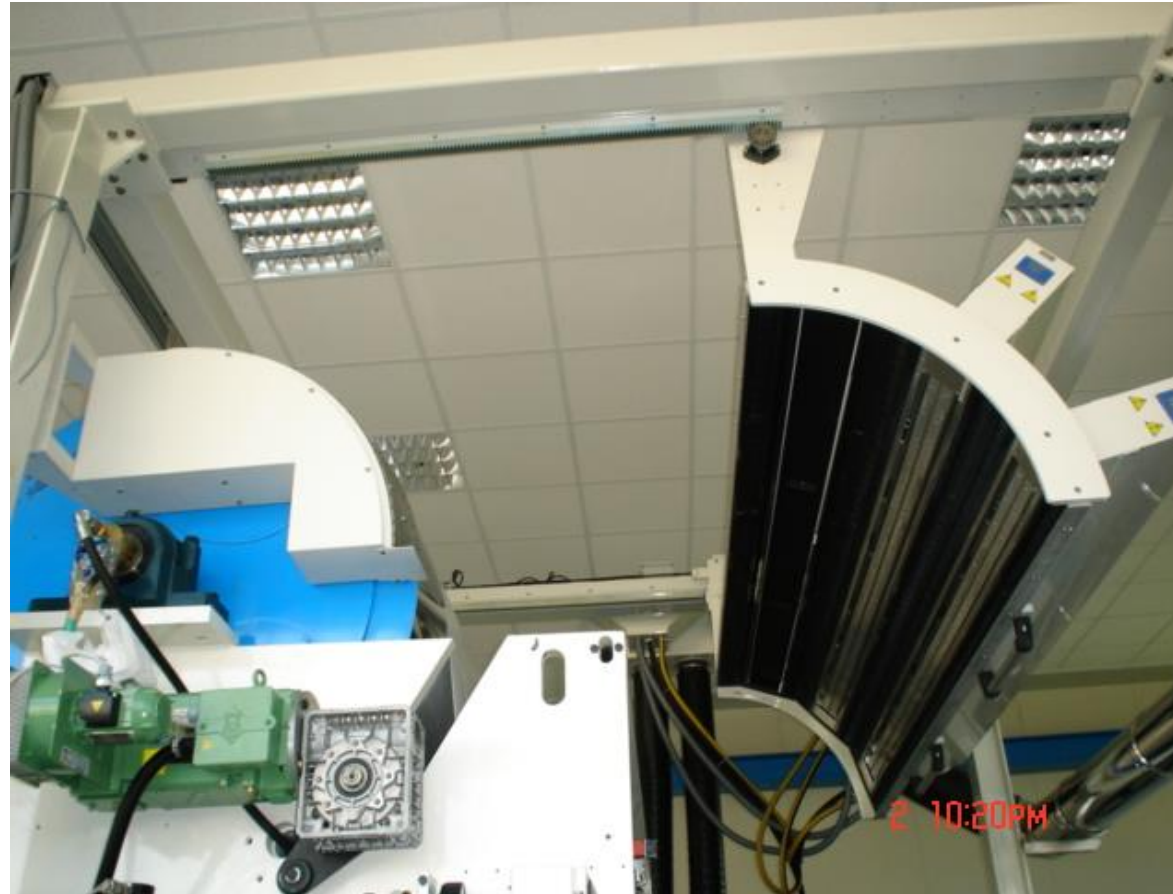
- Operator side view
- Closed system



Project Hotmelt PSA

E-220-2(3)-BLK[®]-SLC

- Operator side view
- Open system



UV unit: polymerisation of Hotmelt PSA

E-65-3-BLK[®]-2-SLC

Consisting of:

- 3 lamps after the Hotmelt coater
- Web path from right or left side, depending of the product
- Lamp length 650 mm
- 200 W/cm
- SLC stepless lamp control
- UV measuring and control
- Hotmelt coating unit Inatec

