



UV end-of-press system for sheetfed

UV end-of-press system for sheetfed



- Reduce energy consumption
- Reduce CO₂ emissions
- Protect the environment
- Cut operating costs

UV end-of-press system for sheetfed

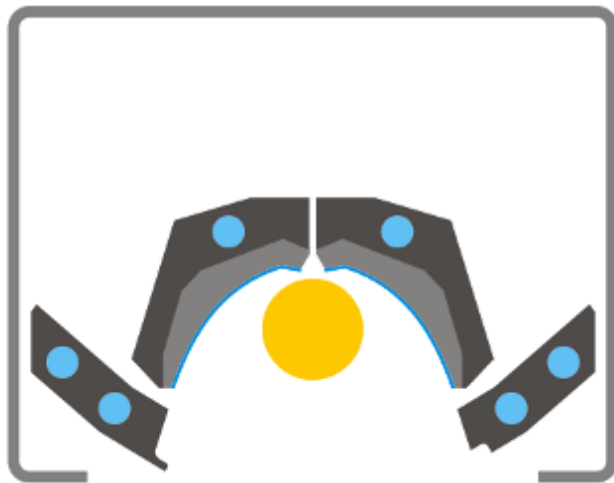


Energy minimized UV printing

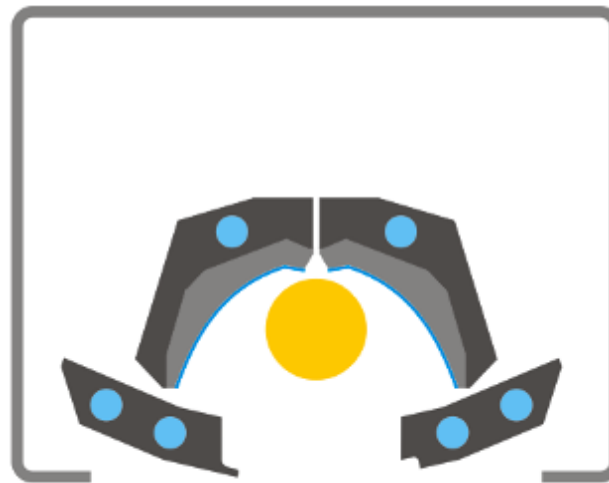
- Developed specifically for sheet-fed printing applications
 - Highest process speed
 - Optimized energy efficiency
- **2 instead of 3**
Two of the new EOP units (fitted with 200 W/cm lamps) can now produce the same excellent curing results as previously achieved by three EOP units (each with 200 W/cm lamps).
- **Possible energy savings up to 33%**

Flexible Shutter Positioning (FSP)

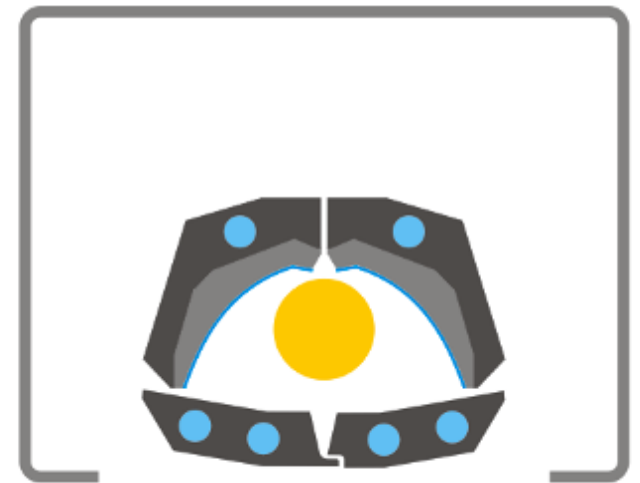
- Wide range of power output
- Optional: Stepped shutter drive
- Inlay technology
- Optional: Reflective surfaces at the shutter edges



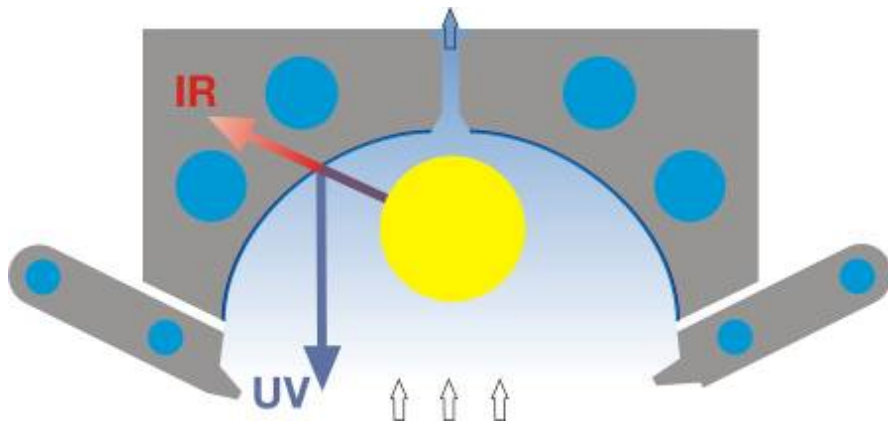
Shutter opened,
wide opening angle



Shutter in intermediate
position, reduced radiation,
(optional)



Shutter closed



URS[®] reflector technology

- Only reflection of UV light
- IR light (heat) is absorbed by the aluminum profiles
- Optimized reflector geometry with most advanced computer software
- Up to 30% more UV output with the same lamp power



Electronic Power Supply ELC[®]

- Area for output reduction: 30 – 100 %
- Efficiency up to 10% increased
- The lamp output can be steplessly adjusted depending on the print speed
- Compact and light construction
- Compensation of variations in the network voltage
- Automatic reduction of the lamp output in stand-by operation

Electronic Power Supply ELC[®]-X

Features:

- **Low operating costs**
High electrical efficiency up to 97% = low energy consumption
- **Compact and light construction (stacking concept)**
Due to its very compact construction the required space and weight for the switch cabinets is reduced by up to 50 %.
- **Available for lamp outputs up to 32 kW**
ELC[®] units are available for lamp outputs from 4 kW to 32 kW. (lamp output of ≥ 240 W/cm optionally available)



Electronic Power Supply ELC[®]-X

Features:

- **Lamp output control**
In case of sensitive materials the production can already be started at 35 % of the maximum output.
- **Stand-by operation**
The UV unit can be operated in stand-by modus with a lamp output of approx. 20-30%.
- **Increased production process safety**
Due to its integrated control and monitoring system output control net voltage variations of +/-10% do not influence the lamp output.
- **Hot Swap technology**
suitable for alternating production with lamp or LED



Hot Swap Technology



Switch over to LEDcure on short notice at any time!
based on ELC[®]-X/PE series

- UV systems are fitted with the same ELC[®] type electronic power supply devices as standard.
- They can be used to continuously regulate the dimming range of the UV lamp.
- Both LAMPcure and LEDcure units can be operated interchangeably with the same ELC[®].
- Existing UV units that are already operated with the ELC[®]-X series can be retrofitted with an LEDcure system.





Smart Control

- **New generation of LAMPcure and LEDcure are equipped with the Smart Control system user interface**
- **Makes the operation of UV systems clear, is easy to use**
- **Allows straightforward integration into the control systems of all common kinds of printing press**

REMARKS:

- **Remote ready feature is still available**

Smart Control



Smart Control

The interface displays a top status bar with a progress indicator, 'xxx s', '11:42 h', and '18.03.2015'. Below are five process cards (01-05) and control panels for UV and N2.

Card	Icon	Unit 1	Unit 2	Unit 3	Unit 4
01	Target	%	%	m/min	
02	Target	%	%	m/min	
03	Target	%	%	m/min	mW/cm ²
04	Grid	%	%	m/min	
05	Grid	%	%	m/min	mW/cm ²

Control Panels:

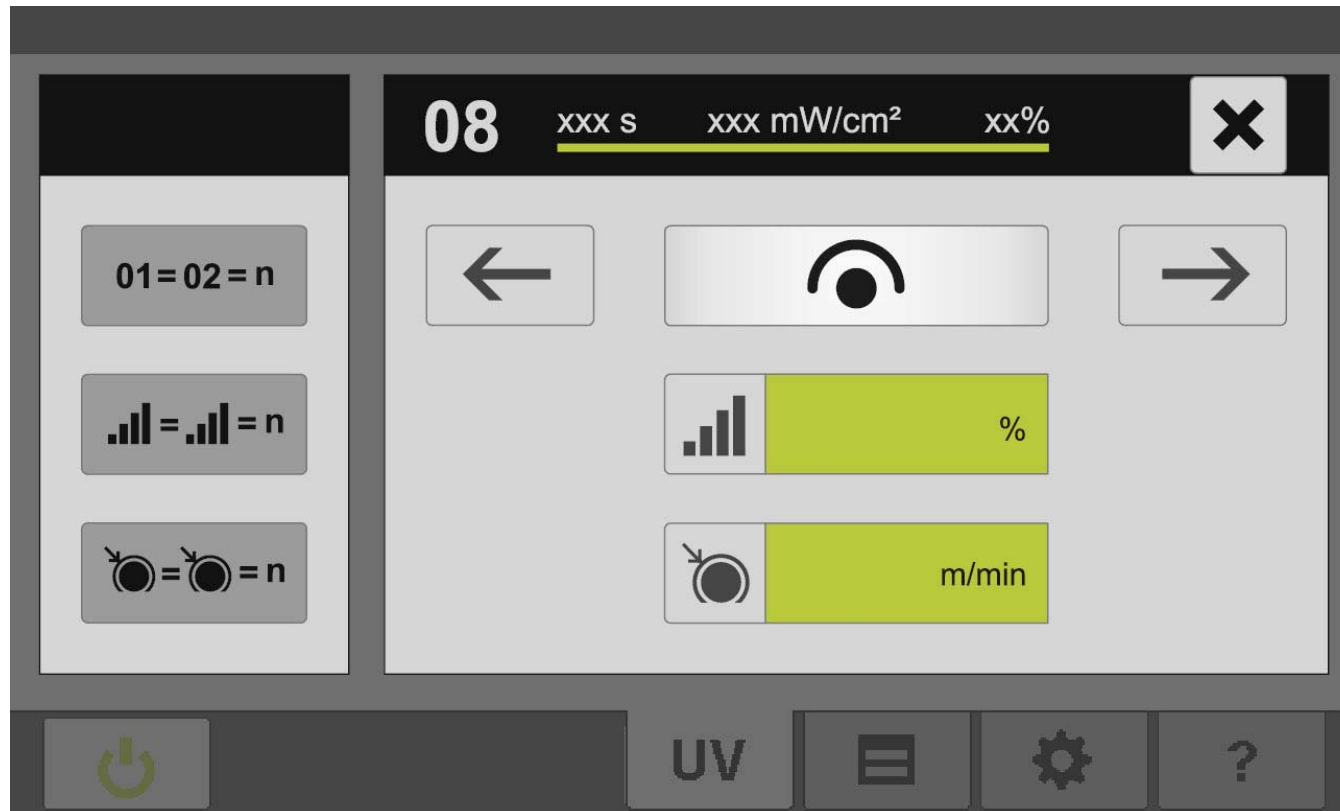
- UV:** mW/cm², mW/cm²
- N₂:** mW/cm², mW/cm²
- Flow:** m/min

Bottom navigation bar: Power, Stop, UV, Menu, Settings, Help.

Smart Control



Smart Control





Mobile UV measuring

- UV measuring with portable measuring device UMS-2
- UV inspection measuring for the control of the lamp output during the production process