

Next generation flexo plate making

Simple, consistent & automated



Crystal Technology

Device Manager: control over the plate making room

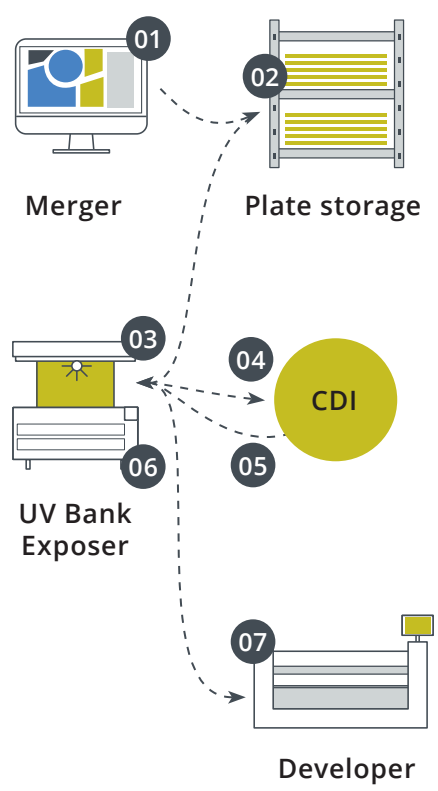
Flexo plates need to be ready fast, within a reliable delivery time. Converters cannot afford presses to be down just because they're waiting for new plates.

Esko's Automation Engine **Device Manager** puts the prepress room in the driving seat. The operational control over the CDI moves upstream in the production workflow.

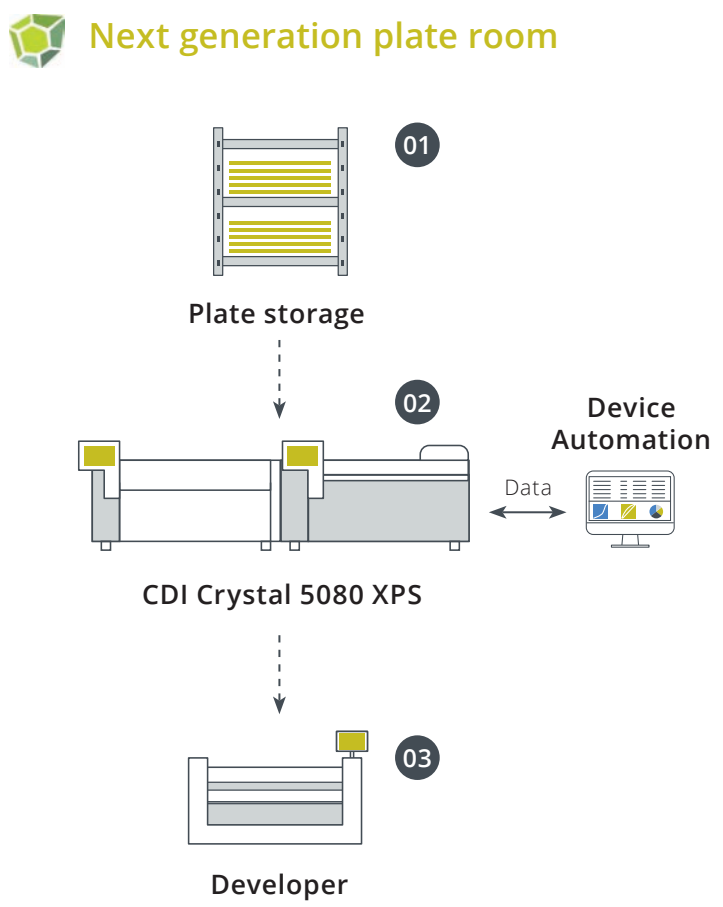
With Device Manager, the prepress department has all the necessary information to prioritize and organize plate making queues to produce the right plate at the right time. The work in progress, status and the queues of all connected devices are clearly visualized on screen.

- Reduced complexity in the plate making room
- Makes production planning transparent and controlled
- Simplifies reporting and analytics

Current plate room



Next generation plate room



Rethinking the flexo plate making process

CDI Crystal 5080: simplified flexo imaging

In today's market, rushing jobs at the last minute at high quality has become the norm.

Traditional multi-step flexo plate making processes are hindering productivity. They are causing errors and rework; and reduce press uptime. In the end, that harms the productivity and profitability of your operation.

A better way to produce flexo plates

The Esko CDI Crystal 5080 is the basis for an impressive reduction of complexity in the plate room.

The Esko CDI Crystal 5080 lays the groundwork for full integration and automation of plate imaging and UV exposure.

- Basis for reducing plate room complexity
- Based on proven Esko CDI laser imaging technology and high resolution optics
- Produces the highest Esko plate quality standard – HD Flexo and Full HD Flexo
- Improved ergonomics help operators work faster



CDI Crystal 5080

XPS Crystal 5080: Improving consistency with patented UV LED exposure

Plate consistency is one of the keys to achieve, and maintain optimal print quality. One of the main factors influencing plate stability is the plate's UV exposure.

The innovative XPS Crystal 5080 optimally combines UV main and back exposure. Unlike UV frames using light bulbs fluctuating in output the XPS Crystal uses UV LEDs which don't need warm-up time and always emit consistent radiation.

A synchronised and optimally controlled UV main and back exposure produces highly consistent digital flexo plates – for every digital flexo plate type at every time of your production day.

Highest consistency and quality

- Synchronized main and back UV LED exposure
- Always repeatable, consistent plate quality
- Development based on Full HD Flexo UV exposure developments
- No more uncertainty at plate quality control

Full productivity and long life

- Parallel process to plate imaging for higher throughput
- Part of plate making automation by Crystal technology
- 5000h expected lifetime (vs. 500h on bank light)
- Reduce errors by 50%



XPS Crystal 5080

Removing complexity through automation

With the CDI Crystal 5080 XPS, Esko redefines flexo plate making from scratch.

Usually, this process consists of many complex and manual steps, which not only takes time, it also offers ample opportunity for human errors.

The CDI Crystal 5080 XPS is the answer: instead of sending a flexo plate through up to seven manual steps, it now becomes a coordinated, linear process.

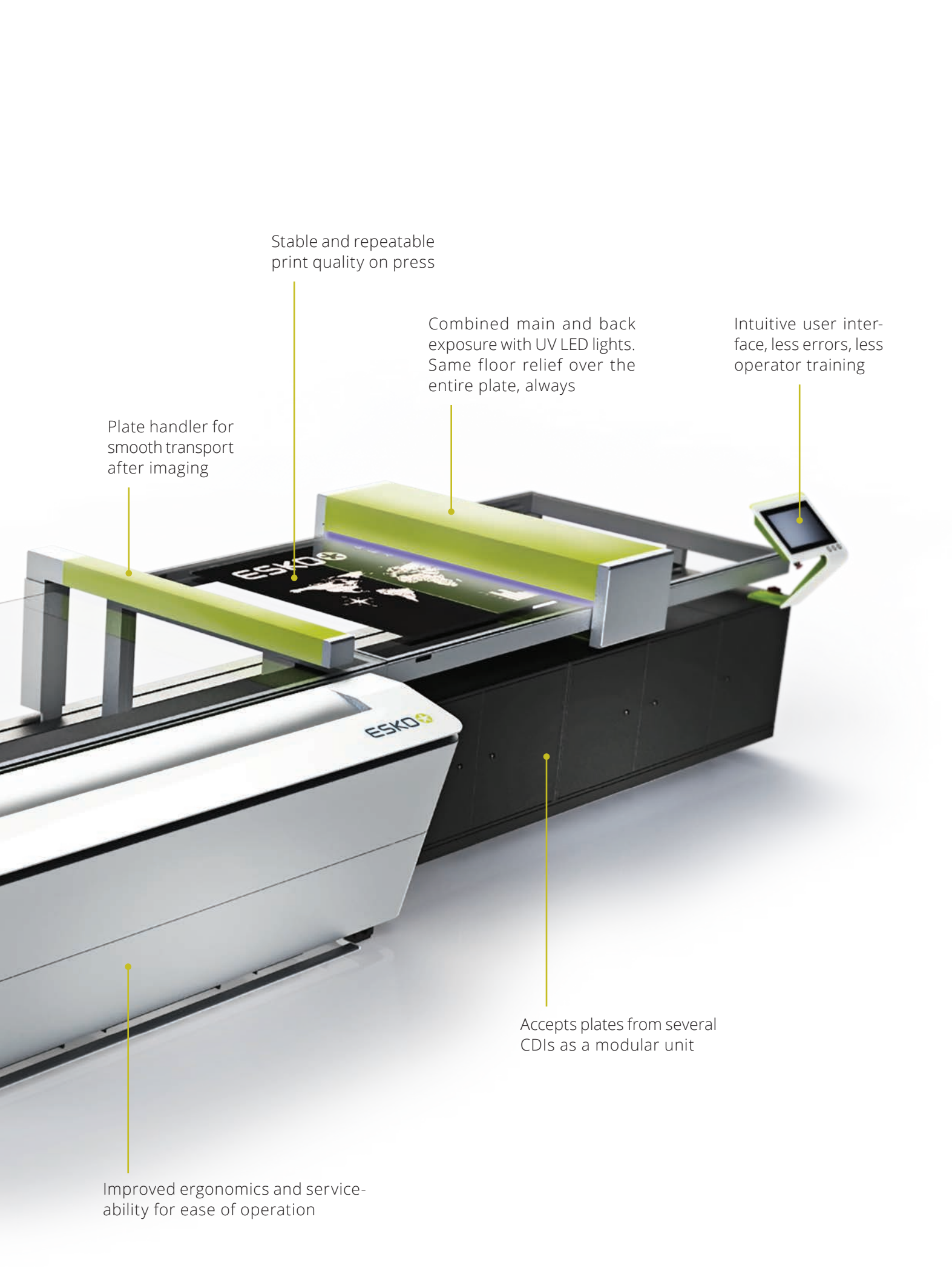
The integration and automation of digital imaging and LED UV exposure improves consistency and overall ease of use. This solution not only frees up valuable operator time but also reduces maintenance and the footprint of your flexo equipment.

- Reduce manual steps by 50%
- Reduce errors by 50% – less plate waste
- Reduce operator time with 73%

Glass plate table for easy automatic unloading

Intuitive user interface, less errors, less operator training





Stable and repeatable
print quality on press

Combined main and back
exposure with UV LED lights.
Same floor relief over the
entire plate, always

Intuitive user inter-
face, less errors, less
operator training

Plate handler for
smooth transport
after imaging

Accepts plates from several
CDIs as a modular unit

Improved ergonomics and service-
ability for ease of operation