

CDI Spark 5080

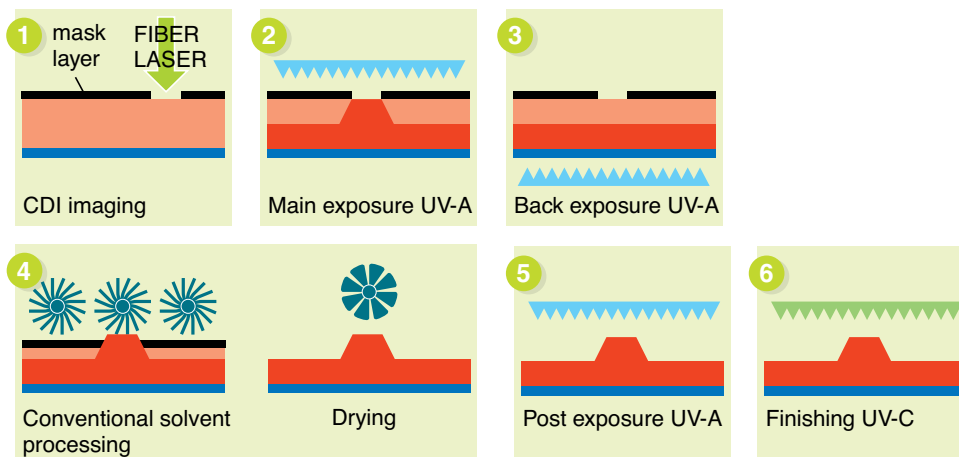
Technical specifications



The CDI is the first and most used laser imager for direct exposure on flexo plates. As a GATF and FTA award winner, it represents a great leap forward in digital flexography. CDI plates offer quality and printing stability that has so far only been achievable in offset or gravure. This provides business expansion from converting offset and gravure jobs to flexo. The CDI Spark 5080 addresses the highest quality flexo applications, primarily in the flexible packaging and folding carton markets, with inroads also in corrugated.

Four productivity levels are available for the CDI Spark 5080: Optics 15 (1.5m²/h), Optics 25 (2.5m²/h), Optics 40 (4.0m²/h) and Optics 80 (8.0 m²/h). The CDI Spark 5080 Optics 80 addresses the highest throughput needs, imaging up to 8.0m² of digital plates per hour. In just 19 minutes, it images a full size 50" x 80" / 1270 mm x 2032 mm plate of arbitrary thickness. The CDI Spark 5080 comes with EasyClamp for fast and most convenient plate loading on the vacuum drum.

Imaging digital flexo plates on the CDI



The digital flexo plate has a mask layer – sensitized to the CDI's laser light – on top of its surface. After imaging, this mask takes the function of the traditional film negative. Through the integration of the image carrier, a digital flexo plate has sharper image definition and steeper relief shoulders than conventional plates produced with film. Image deterioration by UV light absorption and scattering in the traditional contacting through vacuum sheet and film is totally eliminated.

The CDI technology provides a major breakthrough in enhanced output quality and consistency, with reduced overall process cost.

Type of imager

- External drum design
- Drum size:
Drum 5080 with EasyClamp:
max. plate format 50" x 80" /
1270 mm x 2032 mm or smaller
- Cast granite machine base
- High power Fiber Laser source,
Class 1 laser

Image quality

- Screen rulings: up to 250 lpi,
depending on imaging resolution
- Halftone 1-99%
- Standard Optics: fully variable
from 2000 to 2540 ppi on job-to-
job base
- HighRes Optics: fully variable
from 2540 to 4000 ppi on job-to-
job base (for Optics 15, Optics 25
and Optics 40)

Engine control

Grapholas® on Intel PC with Windows XP.

The input file format is LEN or TIFF, compatible with all CDI family members.

Plates

- All digital photopolymer plates or
ablative film
- Usable plate thickness: 0.030" to
0.280" / 0.76 mm to 6.86 mm
- Sizes up to 50" x 80" / 1270 mm
x 2032 mm or smaller

Machine dimensions

- Width: 127.9" / 3250 mm
- Depth: 68.8" / 1750 mm
(cover closed)
74.4" / 1890 mm
(cover open)
- Height: 74.4" / 1005 mm
- Weight: 5500 lb. / 2500 kg

Installation requirements

- Separate vacuum and exhaust
system included
- External compressed air device
supplied with the system
- No external water cooling is
required
- Electrical
 - 230V/N/PE, 50/60 Hz, 2.9 kVA
(imager)
 - 230V/N/PE, 50/60 Hz, 1.2 kVA
(exhaust unit)
 - 230 V/N/PE, 50/60 Hz,
0.75 kVA (air compressor)

Productivity

Imaging times for digital flexo plates (50" x 80" / 1270 x 2032 mm) at 2540 ppi.

Productivity can differ due to media and job conditions.

	Optics 15 (1.5m ² /h)	Optics 25 (2.5m ² /h)	Optics 40 (4m ² /h)	Optics 80 (8m ² /h)
Plate format	50" x 80"	50" x 80"	50" x 80"	50" x 80"
Imaging time	100 min.	60 min.	38 min.	19 min.