Esko CDI Spark 5080 Technical specifications



Type of imager

- External drum design
- Drum sizes:
 Drum 5080 C (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 200 lpi, depending on imaging resolution
- Halftone 1-99%
- Resolutions: fully variable from 2000 to 4000 ppi on job-to-job base

Engine control

Grapholas® on Intel PC with Windows 2000.

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:
 42" x 60" / 1067 mm x 1524 mm
 or smaller
 50" x 80" / 1270 mm x 2032 mm
 or smaller

Installation requirements

- Separate vacuum and exhaust system included
- No external compressed air supply needed
- 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)

Machine dimensions

 Width: 127.9" / 3250 mm
 Depth: 68.8" / 1750 mm (cover closed) 74.4" / 1890 mm (cover open)

Height: 74.4" / 1005 mmWeight: 6614 lb. / 3000 kg

Productivity

Imaging times for DuPont Cyrel® digital flexo plates at 2540 ppi.

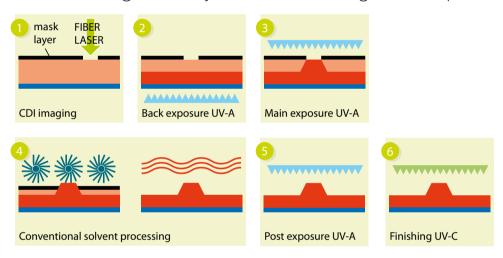
	Optics 15 (1.5m²/h)	Optics 25 (2.5m²/h)	Optics 40 (4m²/h)	Optics 80 (8m²/h)
Plate format	50" x 80"	50" x 80"	50" x 80"	50" x 80"
Imaging time	100 min.	60 min.	38 min.	19 min.

Productivity can differ due to media and job conditions.



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 12 minutes, it images a full size 42" x 60" / 1067 mm x 1524 mm plate of arbitrary thickness. Optionally the CDI Spark 5080 comes with EasyClamp, to securely hold down flexo plates of any thickness on the vacuum drum.

The CDI images on Cyrel® and other digital flexo plates



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.