

# CDI Spark 4835

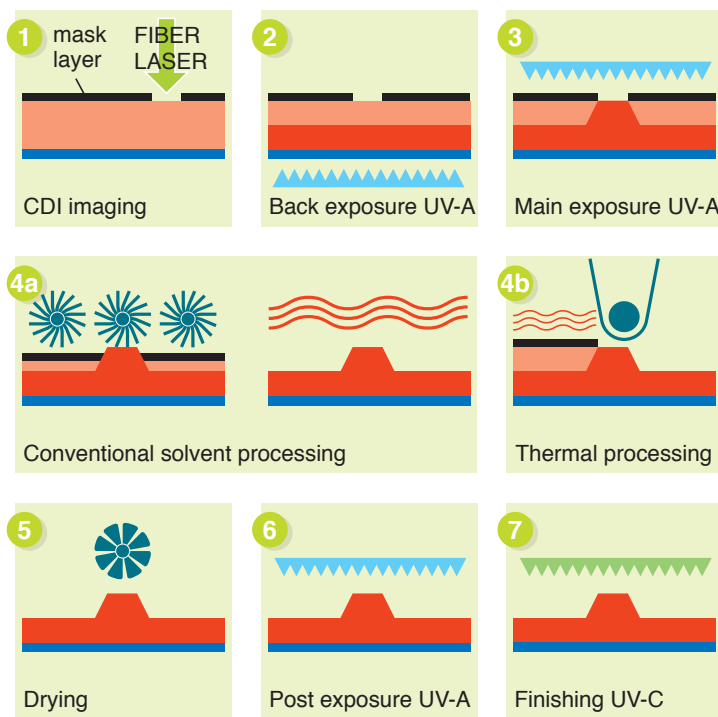
## Technical specifications

Based on the FTA and GATF award winning technology of the Esko Cyrel™ Digital Imager (CDI), the premier and most productive device for flexo imaging, the CDI Spark 4835 specifically addresses the small and medium volume label and folding carton flexo plate makers and converters.

Three productivity levels of the awarded CDI Optics are available for CDI Spark 4835, either Optics 15 (1.5 m<sup>2</sup> per hour), Optics 25 (2.5 m<sup>2</sup> per hour) or Optics 40 (4 m<sup>2</sup> per hour).

The CDI Spark 4835 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.



#### Machine dimensions

- Width: 82.7" / 2100 mm
- Depth: 43.3" / 1100 mm  
(loading table closed)  
66.9" / 1700 mm  
(loading table opened)
- Height: 45.7" / 1160 mm
- Weight: 3300 lb. / 1500 kg

#### Type of imager

- External drum design
- Max. plate format 48" x 35" / 1200 mm x 900 mm or smaller
- Solid 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 0.255" / 0.76 mm to 6.35 mm
- Sizes up to: 48" x 35" / 1200 mm x 900 mm (or smaller)

#### Letterpress option available

- For steel-base Letterpress plates (sizes up to 635 mm x 815 mm)
- Magnetic drum with customized register pin system for digital steel-base Letterpress plates
- Magnetic-vacuum drum for all digital polyester-base plates and steel-base Letterpress plates

#### 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)

#### Productivity

Imaging times for DuPont Cyrel® digital flexo plates (48" x 35" / 1200 x 900mm) at 2540 ppi.  
Productivity can differ due to media and job conditions.

	Optics 15 (1.5m²/h)	Optics 25 (2.5m²/h)	Optics 40 (4m²/h)
Imaging time	43 min.	26 min.	16 min.

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