

CDI Spark 4835

Technical specifications

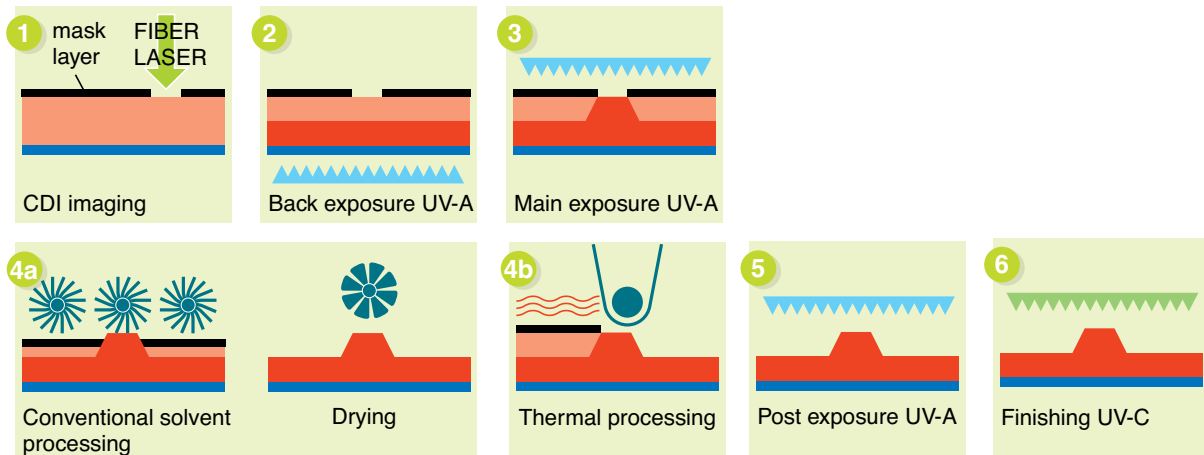


Based on the FTA and GATF award winning technology of the CDI, the premier and most productive device for flexo imaging, the CDI Spark 4835 specifically addresses the small and medium volume label and folding carton flexo plate makers and converters.

Four productivity levels of the awarded CDI Optics are available for CDI Spark 4835, either Optics 15 (1.5m²/h), Optics 25 (2.5m²/h), Optics 40 (4m²/h) or Optics 80 (8m²/h).

The CDI Spark 4835 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
- Max. plate format 48" x 35" / 1200 mm x 900 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, ablative film or polyester-base Letterpress plates
- 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 optional

- Magnetic drum with customized register pin system for digital steel-base Letterpress plates (sizes up to 48" x 35" / 1200 x 900 mm or smaller)
- Magnetic-vacuum drum for all digital polyester-base plates and steel-base Letterpress plates (sizes up to 48" x 35" / 1200 x 900 mm or smaller)

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

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 (48" x 35" / 1200 x 900 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 (8 m ² /h)
Imaging time	43 min.	26 min.	16 min.	8 min.