

CDI Compact 4835

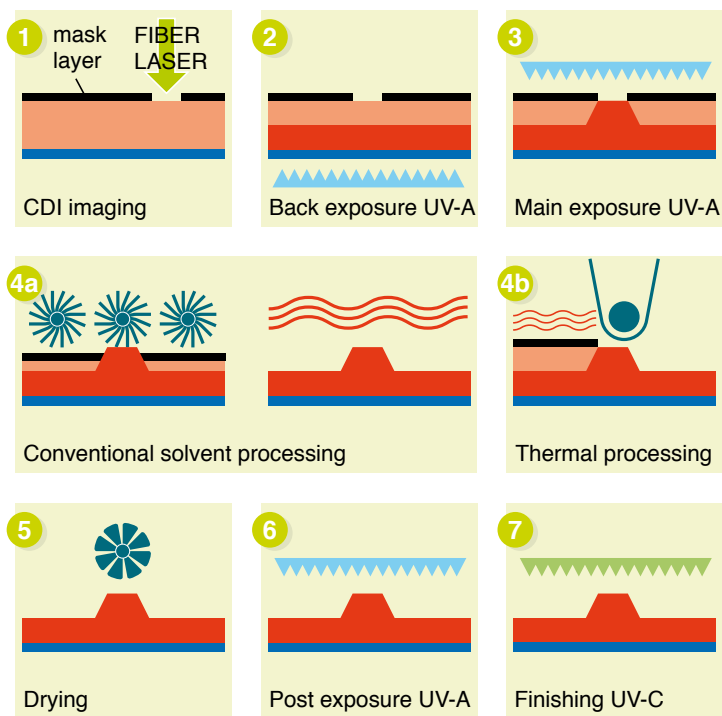
Technical specifications

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 Compact 4835 specifically addresses the medium web flexo applications. The CDI Compact 4835 serves the middle-format highest quality flexo applications, including the flexible packaging and folding carton printing markets.

Three productivity levels are available for the CDI Compact 4835: Optics 15 (1.5 m²/h), Optics 25 (2.5 m²/h) and Optics 40 (4 m²/h). The CDI Compact 4835 Optics 40 addresses the highest throughput, flexibility and reliability needs. In just 12 minutes a full size 42" x 30" / 1067 x 762 mm plate of arbitrary thickness can be imaged.

The CDI Compact with Sleeve Option (Cantilever Sleeve Option and mandrel exchange Sleeve Option) offers highest productivity due to seamless sleeve imaging by the proven multi-beam optics and the Seamless Screens solutions offered by the Esko Flexrip. In just 4 minutes and 30 seconds a sleeve with 600mm repeat and 1000mm length will be imaged (Optics 40, 50% SuperSkip zones).

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: 107.1" / 2720 mm
- Depth: 46.5" / 1180 mm
- Height: 54.4" / 1380 mm (cover closed)
70.7" / 1795 mm (cover open)
- Weight: 5700 lb. / 2600 kg

Type of imager

- External drum design
- Drum sizes:
Drum 4230: max. plate format 42" x 30" / 1067 mm x 762 mm or smaller
Drum 4835: max. plate format 47.2" x 35.4" / 1200 mm x 900 mm or smaller
- Sleeve capability: max. sleeve length 51" / 1300 mm
- 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.

Sleeves

- All digital sleeves (Seamless and Plate-On-Sleeve)
- Sizes up to: 51" / 1300 mm length, 39" / 1000 mm repeat for Cantilever Sleeve Option
- Sizes up to: 51" / 1300 mm length, 50" / 1270 mm repeat for Sleeve Option (Mandrel exchange workflow)

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:
42" x 30" / 1067 mm x 762 mm (or smaller)
47.2" x 35.4" / 1200 mm x 900 mm (or smaller)

Installation requirements

- Separate vacuum and exhaust system included
- External compressed air supply needed only for Cantilever Sleeve Option
- No external water cooling is required
- 3 x 400V/N/PE, 50/60 Hz, 6.5 kVA

Productivity

Imaging times for DuPont Cyrel® digital flexo plates 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)	
Plate format	42" x 30"	47.2" x 35.4"	42" x 30"	47.2" x 35.4"	42" x 30"	47.2" x 35.4"
Imaging time	32 min.	43 min.	19 min.	26 min.	12 min.	16 min.
Sleeve format 600 mm repeat x 1000 mm length (0.6m²)	12 min. (50% SuperSkip zones)		7 min. 12 sec. (50% SuperSkip zones)		4 min. 30 sec. (50% SuperSkip zones)	