

CDI Family

Technical specifications

Type of imager

- External drum design
- 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, 2000-2540 ppi for the CDI Spark 2120

Engine control

Grapholas® on Intel PC with Windows 2000. The input file format is LEN or TIFF, compatible with all CDI family members.

RIP SW & input format

CDI Spark 2120:

- Built-in FlexRip 2120
- Adobe®-certified PostScript/PDF input channel with Esko screens (circular, square, round, elliptical)
- Additional Esko screens and proofing modules available

CDI Spark 2530

- Optional FlexRip 2530
- Adobe®-certified PostScript/PDF input channel with Esko screens (circular, square, round, elliptical)
- Additional Esko screens and proofing modules available

Plates

- All digital photopolymer plates, ablative film or polyester-base Letterpress plates
- Plate sizes depending on drum size
- Usable plate thickness: 0.030" to 0.255" / 0.76 to 6.35 mm

Sleeves

All digital photopolymer sleeves (Seamless Sleeves, Plate-On-Sleeve)

Sizes

- CDI Advance 5080 with SleeveOption: up to 83" / 2110 mm length x 50" / 1270 mm repeat
- CDI Compact 4835 with SleeveOption: up to 51" / 1300 mm length x 50" / 1270 mm repeat

- CDI Compact 4835 Cantilever with Cantilever SleeveOption: up to 51" / 1300 mm length x 39" / 1000 mm repeat

Letterpress option (CDI Spark 2530 and 4835)

- Magnetic drum with customized register pin system for digital steel-base Letterpress plates
- Magnetic-vacuum drum for all digital polyester-base flexo and Letterpress plates and steel-base Letterpress plates

Sizes

- CDI Spark 4835: up to 48" x 35" / 1200 mm x 900 mm (or smaller)
- CDI Spark 2530: up to 25" x 32" / 635 mm x 815 mm (or smaller)

SecuFlex option (CDI Spark 4835)

- SecuFlex option with SecuFlex Optics
- Resolutions: 4000 and 8000 ppi
- Sizes up to 48" x 35" / 1200 mm x 900 mm (or smaller)

Plate formats and sleeve lengths - Maximum plate formats and sleeve lengths are:

	Plates	Sleeves
CDI Advance 5080	Drum 4260 & 4260 C (EasyClamp): 42" x 60" / 1067 x 1524 mm or smaller Drum 5080 & 5080 C (EasyClamp): 50" x 80" / 1270 x 2032 mm or smaller	Up to 83" / 2110 mm
CDI Compact 4835	Drum 4230: 42" x 30" (1067 x 762 mm) or smaller Drum 4835 & 4835 C (EasyClamp): 48" x 35" / 1200 x 900 mm or smaller	Up to 51" / 1300 mm
CDI Spark 4260	42" x 60" / 1067 x 1524 mm or smaller	-
CDI Spark 4835	48" x 35" / 1200 x 900 mm or smaller	-
CDI Spark 2530	25" x 30" / 635 x 762 mm or smaller	-
CDI Spark 2120	21" x 20" / 533 x 508 mm or smaller	-

All CDI Spark models come with EasyClamp drum.

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

	Optics 7.5 (0.75 m ² /h)	Optics 15 (1.5 m ² /h)	Optics 25 (2.5 m ² /h)	Optics 40 (4 m ² /h)	Optics 80 (8 m ² /h)
CDI Advance 5080 42" x 60" plate / 1067 x 1524 mm 50" x 80" plate / 1270 x 2032 mm	-	64 min 100 min	38 min 60 min	24 min 38 min	12 min 19 min
CDI Compact 4835 42" x 30" plate / 1067 x 762 mm 48" x 35" plate / 1200 x 900 mm	-	32 min 43 min	19 min 26 min	12 min 16 min	-
CDI Spark 4260 42" x 60" plate / 1067 x 1524 mm	-	64 min	38 min	24 min	12 min
CDI Spark 4835 48" x 35" plate / 1200 x 900 mm	-	43 min	26 min	16 min	-
CDI Spark 2530 25" x 30" plate / 635 x 762 mm	39 min	20 min	12 min	-	-
CDI Spark 2120 21" x 20" plate / 533 x 508 mm	Optics 10 (1 m ² /h) 16 min	-	-	-	-

Productivity can differ due to media and job conditions.

Machine dimensions

	Width	Depth	Height	Weight
CDI Advance 5080	139" / 3530 mm	60.8" / 1545 mm	41.4" / 1050 mm (cover closed) 52" / 1320 mm (cover open)	7500 lb / 3400 kg
CDI Compact 4835	107.1" / 2720 mm	46.5" / 1180 mm	54.4" / 1380 mm (cover closed) 70.7" / 1795 mm (cover open)	5700 lb / 2600 kg
CDI Spark 4260	110.2" / 2800 mm	65.7" / 1670 mm	45.7" / 1160 mm	3968 lb / 1800 kg
CDI Spark 4835	82.7" / 2100 mm	43.3" / 1100 mm (loading table closed) 66.9" / 1700 mm (loading table open)	45.7" / 1160 mm	3300 lb / 1500 kg
CDI Spark 2530	63.0" / 1600 mm	34.3" / 870 mm (loading table closed) 46.5" / 1180 mm (loading table open)	42.1" / 1070 mm	2200 lb / 1000 kg
CDI Spark 2120	45.7" / 1160 mm	27.6" / 700 mm	41.3" / 1050 mm	705 lb / 320 kg

Installation requirements

- Separate vacuum and exhaust system included
- No external water cooling required
- No external compressed air supply needed
- Electrical:
 - CDI Advance 5080: 3x400V/N/PE, 50/60Hz, 6.5kVA
 - CDI Compact 4835: 3x400V/N/PE, 50/60Hz, 6.5kVA
 - CDI Spark 4260: 230V/N/PE, 50/60Hz, 2.9kVA (imager); 230V/N/PE, 50/60Hz, 1.2kVA (exhaust)
 - CDI Spark 4835: 230V/N/PE, 50/60Hz, 2.9kVA (imager); 230V/N/PE, 50/60Hz, 1.2kVA (exhaust)
 - CDI Spark 2530: 230V/N/PE, 50/60Hz, 1.9kVA (imager); 230V/N/PE, 50/60Hz, 1.2kVA (exhaust)
 - CDI Spark 2120: 230V/N/PE, 50/60Hz, 1.9kVA (imager); 230V/N/PE, 50/60Hz, 1.2kVA (exhaust)