CDI Spark Family

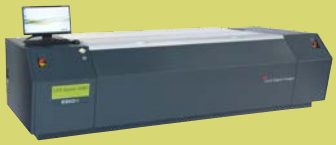
The CDI Spark family offers a wide range of digital flexo imagers for plates for different markets: from a small footprint imager to very large, for the tag and label, flexible packaging, small and medium folding carton to corrugated market.

You can choose and configure a CDI to match your current production needs, and expand capabilities as your business grows. The CDI Spark family can accomodate all plate sizes and you can choose any brand of digital plate and processing method.

CDI Spark Family

	CDI SPARK 1712 	CDI SPARK 2120 
Type of imager		
Image quality		
Engine control		
RIP & Screening options	• Imaging Engine 1712 included • Industry standard PostScript/PDF RIP • Quality screening optimized for flexo and letterpress included in the RIP • HD Flexo option for the finest print quality in flexo • Additional screening and proofing modules available	• Optional Imaging Engine 2120 • Industry standard PostScript/PDF RIP • Quality screening optimized for flexo and letterpress (Circular, Double Circular dots) included in the RIP • HD Flexo option for the finest print quality in flexo • Additional screening and proofing modules available
Optics / Productivity	7.5 0.75 m²/h	7.5 0.75 m²/h 10 1.0 m²/h
Plates	• All digital photopolymer plates, ablative film or polyester-base Letterpress plates • Usable plate thickness: 0.030" to 0.100" / 0.76 to 2.54 mm • Sizes up to 16.53" x 11.81" / 420 x 300 mm	• All digital photopolymer plates, ablative film or polyester-base Letterpress plates • Usable plate thickness: 0.030" to 0.100" / 0.76 to 2.54 mm • Sizes up to 21" x 20" / 533 x 508 mm or smaller **Letterpress optional** Magnetic drum with customized register pin system for digital steel-base Letterpress plates (sizes up to 21" x 20" / 533 x 508 mm or smaller)
Machine dimensions	• Width 33.85" / 860 mm • Depth 27.75" / 705 mm • Height 38.97" / 990 mm • Weight 661 lb / 300 kg	• Width 45.7" / 1160 mm • Depth 27.6" / 700 mm • Height 41.3" / 1050 mm • Weight 705 lb / 320 kg
Installation requirements	• Separate vacuum system and exhaust unit included • Electrical: Imager: 230V/N/PE, 50/60 Hz Exhaust: 90-250V/N/PE, 50/60 Hz; 1.2 kVA	• Separate vacuum system and exhaust unit included • Electrical: Imager: 230V/N/PE, 50/60 Hz Exhaust unit: 230V/N/PE, 50/60Hz, 1.2 kVA

CDI SPARK 2420	CDI SPARK 2530	CDI SPARK 4835
		
	• External drum design with vacuum system and EasyClamp • High power Fiber Laser source, Class 1 laser	
	• 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 (up to 6m2/h @ 4000 ppi)	
	• Grapholas® on Intel PC with Windows 7. The input file format is LEN or TIFF, compatible with all CDI family members.	
• Imaging Engine 2420 • Industry standard PostScript/PDF RIP • Quality screening optimized for flexo (Circular, Double Circular dots) included in the RIP • Additional screening and proofing modules available	• Optional Imaging Engine 2530 • Industry standard PostScript/PDF RIP • Quality screening optimized for flexo and letterpress (Circular, Double Circular dots) included in the RIP • HD Flexo option for the finest print quality in flexo • Additional screening and proofing modules available	
7.5 0.75 m²/h 10 1.0 m²/h 15 1.5 m²/h	7.5 0.75 m²/h 10 1.0 m²/h 15 1.5 m²/h 25 2.5 m²/h	15 1.5 m²/h 25 2.5 m²/h 40 4.0 m²/h 80 8.(
• All digital photopolymer plates, ablative film or polyester-base Letterpress plates • Usable plate thickness: 0.030" to 0.100" / 0.76 to 2.54 mm • Size up to 24" x 20" / 609 x 508 mm (or smaller) **Letterpress optional** Magnetic drum with customized register pin system for digital steel-base Letterpress plates (sizes up to 24" x 20" / 609 x 508 mm or smaller) Magnetic-vacuum drum for all digital polyester-base plates and steel-base Letterpress plates (sizes up to 24" x 20" / 609 x 508 mm or smaller)	• All digital photopolymer plates, ablative film or polyester-base Letterpress plates • Usable plate thickness: 0.030" to 0.155" / 0.76 to 3.94 mm • Sizes: up to 25" x 30" / 635 x 762 mm or smaller **Letterpress optional** Magnetic drum with customized register pin system for digital steel-base Letterpress plates (sizes up to 25" x 32" / 635 x 815 mm or smaller) Magnetic-vacuum drum for all digital polyester-base plates and steel-base Letterpress plates (sizes up to 25" x 32" / 635 x 815 mm or smaller)	• All digital photopolymer plates, abl polyester-base Letterpress plates • Usable plate thickness: 0.030" to 0 0.76 to 6.35 mm • Sizes up to 48" x 35" / 1200 x 900 m **Letterpress optional** Magnetic drum with customized registe digital steel-base Letterpress plates (si 1200 x 900 mm or smaller) Magnetic-vacuum drum for all digital p and steel-base Letterpress plates (sizes 1200 x 900 mm or smaller)
• Width 45.7" / 1160 mm • Depth 27.6" / 700 mm • Height 41.3" / 1050 mm • Weight 705 lb / 320 kg	• Width 68" / 1730 mm • Depth 37.8" / 960 mm (loading table closed) 49.6" /1260 mm (loading table open) • Height 44.4" / 1128 mm • Weight 2380 lb / 1080 kg	• Width 82.2" / 2090 mm (up t 91.3 / 2320 mm (Optio • Depth 67" / 1710 mm • Height 46.9" / 1190 mm • Weight 2932 lb / 1330 kg
• Separate vacuum system and exhaust unit included • No external compressed air supply needed • No external water cooling is required • Electrical: Imager: 230V/N/PE, 50/60 Hz Exhaust unit: 230V/N/PE, 50/60 Hz, 1.2 kVA	• Separate vacuum system and exhaust unit included • Electrical: Imager: 230V/N/PE, 50/60 Hz Exhaust unit: 230V/N/PE, 50/60Hz, 1.2 kVA	• Separate vacuum system, exhaust compressed air device included • External compressed air device su the system • Electrical: Imager: 230V/N/PE, 50/60 Hz Exhaust unit: 230V/N/PE, 50/60Hz, Air compressor: 230V/N/PE, 50/60

	CDI SPARK 4260 	CDI SPARK 5080 
	• Optional Imaging Engine • Industry standard PostScript/PDF RIP • Quality screening optimized for flexo (Circular, Double Circular dots) included in the RIP • HD Flexo Screening option for the finest print quality inflexo • Additional screening and proofing modules available	
0 m²/h	15 1.5 m²/h 25 2.5 m²/h 40 4.0 m²/h 80 8.0 m²/h	15 1.5 m²/h 25 2.5 m²/h 40 4.0 m²/h 80 8.0 m²/h
ative film or .255" / mm or smaller er pin system for zes up to 48" x 35" / olyester-base plates s up to 48" x 35" /	• All digital photopolymer plates, ablative film or polyester-base Letterpress plates • Usable plate thickness: 0.030" to 0.255" / 0.76 to 6.35 mm • Sizes: up to 42" x 60" / 1067 x 1524 mm or smaller	• All digital photopolymer plates, ablative film or polyester-base Letterpress plates • Usable plate thickness: 0.030" to 0.255" / 0.76 to 6.35 mm • Sizes: up to 50" x 80" / 1270 x 2032 mm or smaller
o Optics 40) cs 80)	• Width 110.2" / 2800 mm • Depth 43.3" / 1100 mm (cover closed) 65.8" / 1670 mm (cover open) • Height 45.7" / 1160 mm • Weight 3968 lb / 1800 kg	• Width 127.9" / 3250 mm • Depth 68.8" / 1750 mm (cover closed) 74.4" / 1890 mm (cover open) • Height 39.5" / 1005 mm • Weight 5500 lb / 2500 kg
unit and external pplied with 1.1 kVA Hz, 0.75 kVA	• Separate vacuum system, exhaust unit and external compressed air device included • No external water cooling is required • Electrical: Imager: 230V/N/PE, 50/60 Hz Exhaust unit: 230V/N/PE, 50/60Hz, 1.2 kVA Air compressor: 230V/N/PE, 50/60Hz, 0.75 kVA	• Separate vacuum system, exhaust unit and external compressed air device included • No external water cooling is required • Electrical: Imager: 230V/N/PE, 50/60 Hz Exhaust unit: 230V/N/PE, 50/60Hz, 1.2 kVA Air compressor: 230V/N/PE, 50/60Hz, 0.75 kVA

One single machine for all your media

Our market-leading machines can image digital (LAMS coated) flexo plate (polyester- and, optional, metal based), chemistry-free offset plates, digital silk screens and chemistry-free film.

- Digital flexo plates: Fuji, Flint, DuPont, MacDermid, Asahi, Toyobo, Toray and others
- Digital letterpress plates (metal and polyester based): Dantex, Flint, Toray, Toyobo and others
- Digital varnishing plates: Flint, DuPont
- Chemistry-free offset plates: Presstek
- Film: PCI (Laserpoint II), Folex AG (LADF 0175)
- Rotary screen: Gallus Screeny

Plate handling

- Integrated plate loading tables at all CDI models.
- Plate clamping drums at all CDI models.
- Optional: EasyLoad tables for safe and comfortable plate transportation.

Automation for CDI Spark 4260 & CDI Spark 5080

With the Automation option, handling mistakes during plate loading will no longer cause plate losses.

The "**Autoload**" functionality for CDI Spark 4260 and 5080 offers fully automated plate loading and operator supported unloading.

Choose the imager that is flexible enough to image virtually any material.

Inline UV

Esko UV diode technology converts the UV Main Exposure from an uncontrollable analog process to a high precision digital process.

The Inline UV benefits at a glance:

- Quality: excellent definition of dots and line work
- Consistency: highest consistency of exposure throughout the plate
- Controlled exposure: no change of UV light output over time (contrary to bank light systems where UV light bulbs are ageing)
- Repeatability: equal plate quality from job to job and from plate to plate
- Predictability: You know exactly what the result will be
- Extended lifetime: more than ten times longer lifetime compared to the analogue light tube technology
- Approved for solvent and thermal plates and sleeves
- Sustainability: Energy consumption for the Inline UV units is lower than for traditional UV exposure technologies

Esko's digital Inline UV main exposure allows to choose the dot shape per plate or sleeve: With the Inline UV1 setup round top dots are created offering the known dot shape compatible with the use of bank light tables.Thanks to the digitally controlled process, the dots are of highest quality and of perfect consistency all over the plate. The Inline UV1 exposure delivers plates with the most stable and sharp round top dots. With the use of HD Flexo, these round top dots print gradients down to zero; they also deliver much improved solid ink areas with almost no pinholes.

The Inline UV2 setup in combination with advanced HD Flexo screening (= **Full HD** Flexo) creates a unique dot shape that delivers the best highlight quality in combination with perfect solid ink lay down in all flexible packaging applications. Full HD Flexo also boosts corrugated printing due to fluting reduction. Furthermore, Full HD Flexo brings quality and consistency benefits to label printing by improving print consistency and highlight stability, and by reduction of gear marks.

Availability

CDI Spark 2530, 4835, 4260 and 5080 as well as the CDI Advance Cantilever 1450 and 1750 can be optionally equipped with an Inline UV main exposure unit.

HD Flexo and Full HD Flexo

HD Flexo has set the new flexo printing standard for fine highlights, transition to zero, sharp text and brilliant image details.

Full HD Flexo is adding perfect ink laydown with the right solid density, vibrant brand colors, supreme platemaking consistency and the only fully digitally controlled platemaking workflow available in industry.

Now flexo can compete with gravure and offset in flexible packaging, labels and corrugated printing applications.

HD Flexo and Full HD Flexo benefits

- Smoother, sharper images with expanded tonal range
- Bright vibrant solids and a wider color gamut
- Supreme platemaking consistency
- Industry standard quality supported by major plate vendors

Become HD Flexo or Full HD Flexo Certified! HD Flexo and Full HD Flexo are the new standards for flexo quality. Companies that are HD Flexo / Full HD Flexo certified are among the best in their field. They can use the Certification seal in their communication.

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