

One single machine for all your media

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

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

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.



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Take control over the plate making room

Flexo plates need to be ready fast, within a reliable delivery time. Converters cannot afford presses to be down just because they're waiting for new plates. Esko's Automation Engine comes with an automated flexo platemaking module.

There's no longer need for manual interventions, the files are prepared automatically which reduces errors and saves plate waste.

Automation Engine's Device Manager puts the prepress room in the driving seat.

The operational control over the CDI moves upstream in the production workflow. With Device Manager, the prepress department has all the necessary information to prioritize and organize plate making queues to produce the right plate at the right time. The work in progress, status and the queues of all connected devices are clearly visualized on screen.

- Reduced complexity in the plate making room
- Makes production planning transparent and controlled
- Simplifies reporting and analytics

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CDI Spark Family








SEP17 - G2558643_US



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 accommodate all plate sizes and you can choose any brand of digital plate and processing method.

CDI Spark Family

	CDI SPARK 1712 	CDI SPARK 2120 	CDI SPARK 2420 	CDI SPARK 2530 	CDI SPARK 4835 	CDI SPARK 4260 	CDI SPARK 5080 																																												
Type of imager	<ul style="list-style-type: none"> External drum design with vacuum system and EasyClamp High power Fiber Laser source, Class 1 laser 																																																		
Image quality	<ul style="list-style-type: none"> 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) 																																																		
Engine control	<ul style="list-style-type: none"> Grapholas® on Intel PC with Windows 7. The input file format is LEN or TIFF, compatible with all CDI family members. 																																																		
RIP & Screening options	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 		<ul style="list-style-type: none"> 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 in flexo Additional screening and proofing modules available 																																													
Optics / Productivity	<table border="0"> <tr><td>7.5</td><td>0.75 m²/h - 10 min.</td></tr> </table>	7.5	0.75 m²/h - 10 min.	<table border="0"> <tr><td>7.5</td><td>0.75 m²/h - 21 min. 30 sec.</td></tr> <tr><td>10</td><td>1.0 m²/h - 16 min. 15 sec.</td></tr> </table>	7.5	0.75 m²/h - 21 min. 30 sec.	10	1.0 m²/h - 16 min. 15 sec.	<table border="0"> <tr><td>7.5</td><td>0.75 m²/h - 25 min.</td></tr> <tr><td>10</td><td>1.0 m²/h - 18 min. 30 sec</td></tr> <tr><td>15</td><td>1.5 m²/h - 12 min. 30 sec.</td></tr> </table>	7.5	0.75 m²/h - 25 min.	10	1.0 m²/h - 18 min. 30 sec	15	1.5 m²/h - 12 min. 30 sec.	<table border="0"> <tr><td>7.5</td><td>0.75 m²/h - 40 min.</td></tr> <tr><td>10</td><td>1.0 m²/h - 30 min.</td></tr> <tr><td>15</td><td>1.5 m²/h - 20 min.</td></tr> <tr><td>25</td><td>2.5 m²/h - 12 min.</td></tr> </table>	7.5	0.75 m²/h - 40 min.	10	1.0 m²/h - 30 min.	15	1.5 m²/h - 20 min.	25	2.5 m²/h - 12 min.	<table border="0"> <tr><td>15</td><td>1.5 m²/h - 43 min.</td></tr> <tr><td>25</td><td>2.5 m²/h - 26 min.</td></tr> <tr><td>40</td><td>4.0 m²/h - 16 min.</td></tr> <tr><td>80</td><td>8.0 m²/h - min. *</td></tr> </table>	15	1.5 m²/h - 43 min.	25	2.5 m²/h - 26 min.	40	4.0 m²/h - 16 min.	80	8.0 m²/h - min. *	<table border="0"> <tr><td>15</td><td>1.5 m²/h - 64 min.</td></tr> <tr><td>25</td><td>2.5 m²/h - 38 min.</td></tr> <tr><td>40</td><td>4.0 m²/h - 24 min.</td></tr> <tr><td>80</td><td>8.0 m²/h - 12 min. *</td></tr> </table>	15	1.5 m²/h - 64 min.	25	2.5 m²/h - 38 min.	40	4.0 m²/h - 24 min.	80	8.0 m²/h - 12 min. *	<table border="0"> <tr><td>15</td><td>1.5 m²/h - 100 min.</td></tr> <tr><td>25</td><td>2.5 m²/h - 60 min.</td></tr> <tr><td>40</td><td>4.0 m²/h - 38 min.</td></tr> <tr><td>80</td><td>8.0 m²/h - 19 min. *</td></tr> </table>	15	1.5 m²/h - 100 min.	25	2.5 m²/h - 60 min.	40	4.0 m²/h - 38 min.	80	8.0 m²/h - 19 min. *
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Plates	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 <p>Magnetic drum option 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)</p>	<ul style="list-style-type: none"> 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) <p>Magnetic drum / magnetic-vacuum drum option 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)</p>	<ul style="list-style-type: none"> 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 <p>Magnetic drum / magnetic-vacuum drum option 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)</p>	<ul style="list-style-type: none"> 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 48" x 35" / 1200 x 900 mm or smaller <p>Magnetic drum / magnetic-vacuum drum option 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)</p>	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 																																												
Machine dimensions	<ul style="list-style-type: none"> Width 33.85" / 860 mm Depth 27.75" / 705 mm Height 38.97" / 990 mm Weight 661 lb / 300 kg 	<ul style="list-style-type: none"> Width 45.7" / 1160 mm Depth 27.6" / 700 mm Height 41.3" / 1050 mm Weight 705 lb / 320 kg 	<ul style="list-style-type: none"> Width 45.7" / 1160 mm Depth 27.6" / 700 mm Height 41.3" / 1050 mm Weight 705 lb / 320 kg 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Width 82.2" / 2090 mm (up to Optics 40) 91.3" / 2320 mm (Optics 80) Depth 67" / 1710 mm Height 46.9" / 1190 mm Weight 2932 lb / 1330 kg 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 																																												
Installation requirements	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Separate vacuum system, exhaust unit and external compressed air device included External compressed air device supplied with the system Electrical: Imager: 230V/N/PE, 50/60 Hz Exhaust unit: 230V/N/PE, 50/60Hz, 1.1 kVA Air compressor: 230V/N/PE, 50/60Hz, 0.75 kVA 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 																																												

* 8 m²/h at 2540 ppi - 6 m²/h at 4000 ppi