SCREEN

TANTO 5120

High-end imagesetter
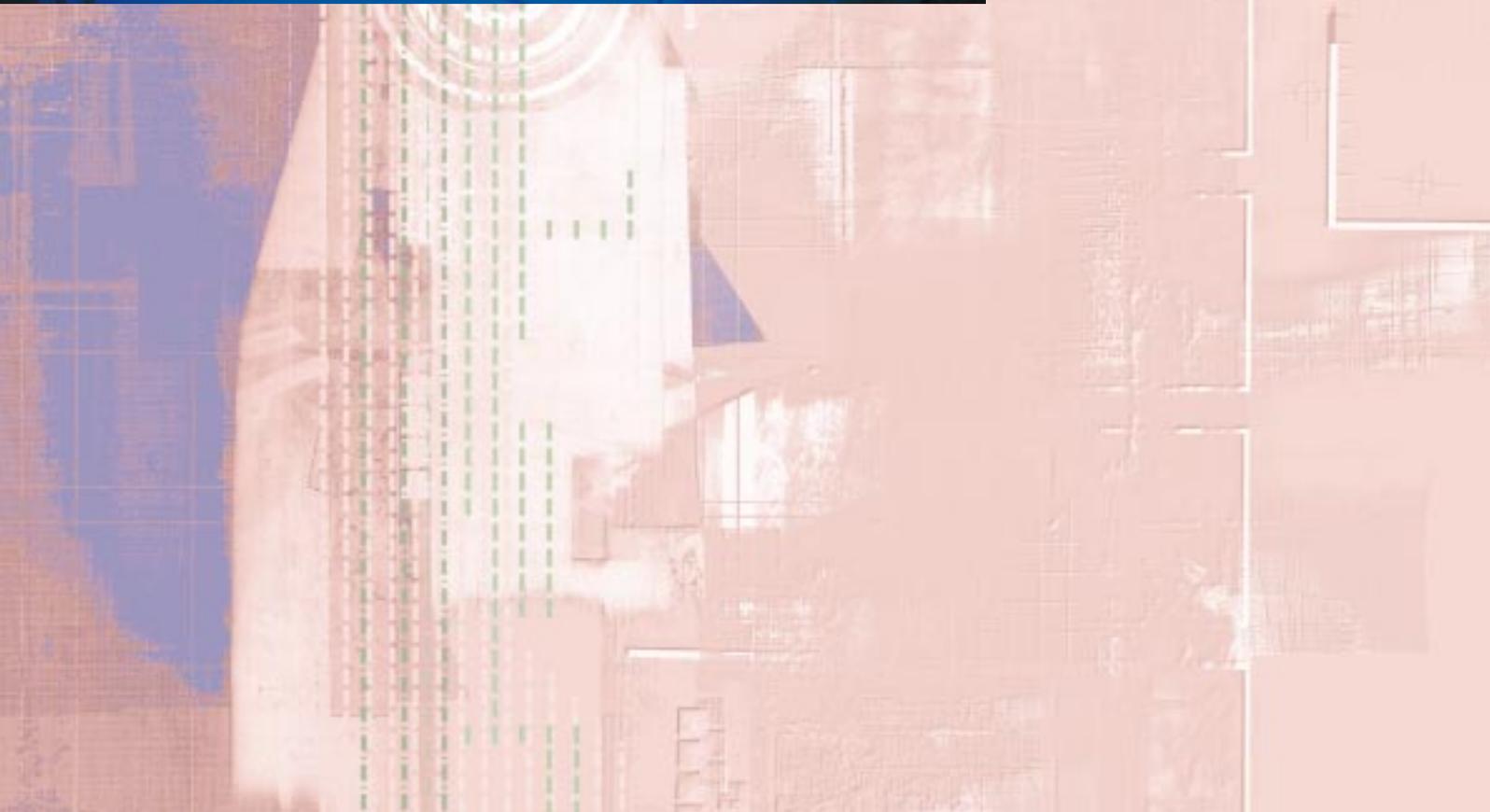
Superlative.

The Tanto 5120 eight-up plus imagesetter from Dainippon Screen images at high speeds with the superlative quality delivered by Screen's acclaimed external drum and optical system engineering.

Its imaging speed is overwhelmingly fast. And its advanced external drum design assures the very highest quality and consistency. The Tanto 5120 features an efficient, highly-reliable, media handling system and a fast data interface which support rapid throughput. Media up to 838 x 1,145 mm (33" x 45") can be imaged. In short, it delivers a powerful combination of specifications.

The Tanto 5120 is not only a high-speed, highly accurate imagesetter, it is also loaded with advanced features for greater productivity and ease of operation. The Tanto 5120 can output onto six different sizes of film at any of six optical resolutions, from 1,200 dpi to 4,000 dpi. Multiple internal punch-block and high-speed RIP options are available. The large-display, touch-screen graphic user interface enhances ease of operation.

Because superior quality, faster throughput, and greater versatility can be decisive in today's competetive marketplace, Screen's Tanto 5120 imagesetter is a critical component of a modern prepress workflow.
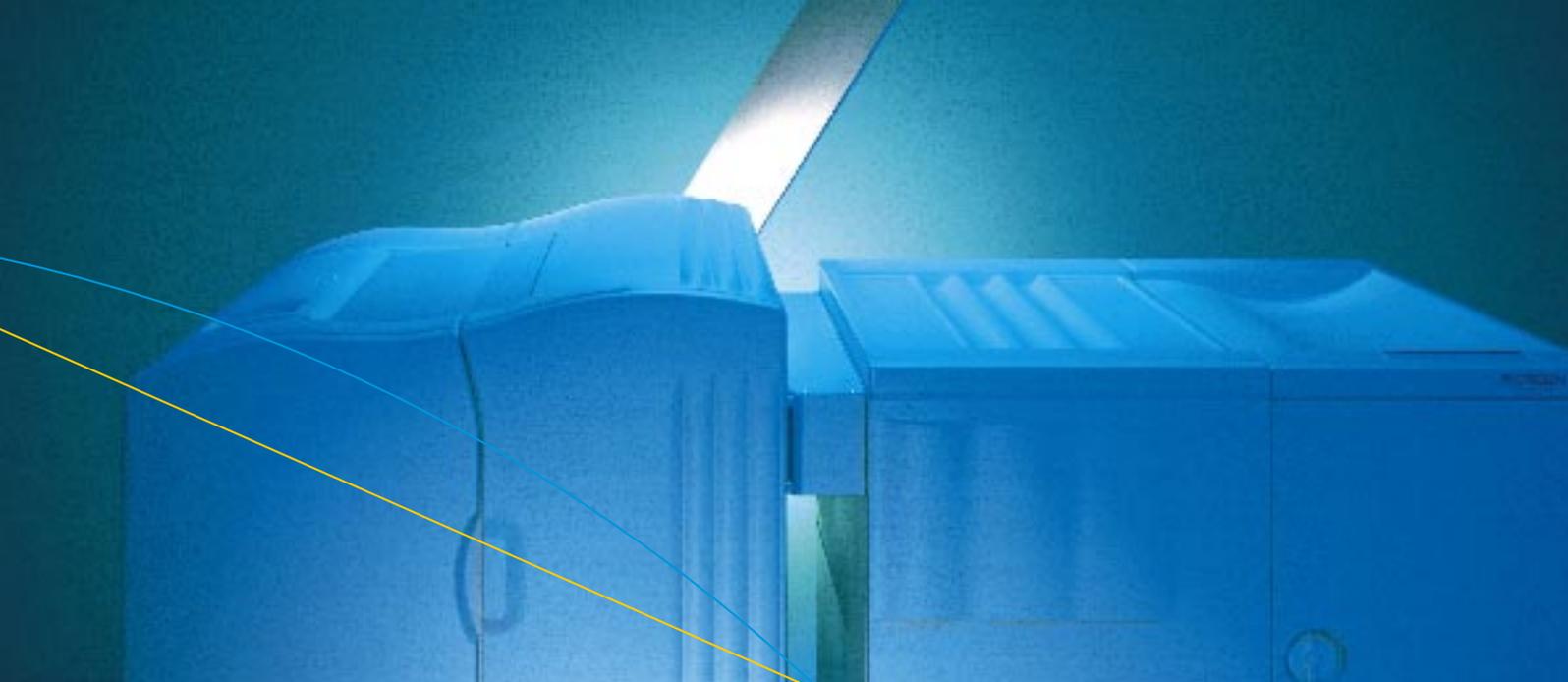
TANTO 5120

HIGH-SPEED EIGHT-UP WITH SUPERIOR QUALITY

Slash the time barrier

The Tanto 5120's imaging speed is the key ingredient in a total recipe for high throughput. To achieve this impressive speed, a high-power LED array simultaneously images a 120 channel-wide swath while the drum spins at up to 420 rpm. In spiral mode, this produces speeds of 11,948 sq.cm/min. (1,852 sq.in./min.) at 1200 dpi, and 5,974 sq.cm/min. (926 sq.in./min.) at 2,400 dpi. The Tanto 5120 can image up to 50,400 scan lines/min. in the secondary scanning direction. What's more, it can receive data at a full 16MB/sec. through its F-PIF interface, which further enhances its throughput capabilities.

Choice of formats and resolutions

The Tanto 5120's maximum media size of 838 x 1,145 mm (33" x 45") supports 8-up output with plenty of room to spare, while the minimum media size of 610 x 830 mm (24" x 32.7") is suitable for A2 or 4-up output.

Supporting a range of six different standard media sizes, the Tanto 5120 can handle a range of output tasks efficiently. Its six imaging resolutions, 1,200, 2,000, 2,400, 3,000, 3,500*, and 4,000 dpi, offer a full array of output quality choices, including FM screening. The minimum spot size of 6.35 microns helps assure that images are recorded clearly and crisply even at the highest resolutions, while spot size variability helps optimize image quality at each resolution setting.

* Available only with TaigaSPACE.

High precision

The Tanto 5120's advanced external drum design delivers extremely high-precision imaging. This design allows the high-powered LED imaging head to be positioned extremely close to the media. In fact, Tanto's name was selected to express this precision and reliabil-ity: the *tanto* is a Japanese precision-crafted, short-bladed sword—known for its strong, durable design.

The Tanto 5120 imagesetter can always place spots from a position perpendicular to, and at a constant, short distance from, the media. This assures consistent spot addressability. The Tanto 5120 is so accurate that it excels even at difficult tasks like outputting multiple separations of a single page on the same sheet of media. This is made possible by a low-stress loading system that puts minimal tension onto the media during loading, preventing film distortion.
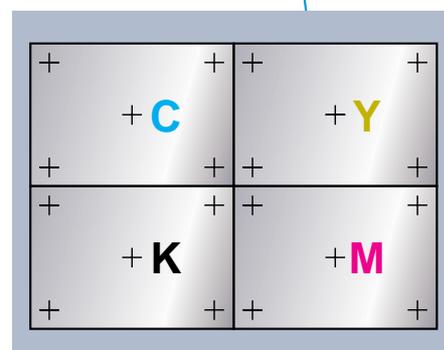
TANTO 5120

## RELIABLE, VERSATILE MEDIA HANDLING

Use multiple media

The Tanto 5120 can image both film and paper.* The optional take-up cassette enables two media flows on the same unit. For example, film could be sent to the inline processor, while flexible plates could be sent to the take-up cassette for later processing. With this configuration, a single Tanto 5120 imagesetter can output several media sizes or media types just by selecting the appropriate supply magazine for the job.

* Polyester plate output is not yet supported, but is planned for the near future.

The Tanto 5120's media transport system is specially designed to minimize stress on the media and maximize throughput. The dual magazine system makes switching from one media to another fully automatic, while the slack zone between the drum and the processor eliminates unnecessary device idle time.

### Reliable media handling system

The Tanto 5120's efficient and highly reliable media handling system assures rapid and consistent throughput. An autoloading function makes media handling easy. Once the media is inserted into the magazine, everything from feeding out and cutting the material to output can be done automatically in a full daylight environment. An optional second supply magazine and optional internal punch system further reduce the need for operator intervention. On the media output end, a slack zone between the drum and the outlet to the inline processor prevents bottlenecks between devices.

Easy to use GUI

The large-display, touch-screen graphic user interface enhances ease of operation and shows output conditions, the media loaded, selected image sizes—it can even relay messages from the processor.

Media
Rollers
Magazine 1
Magazine 2
Drum
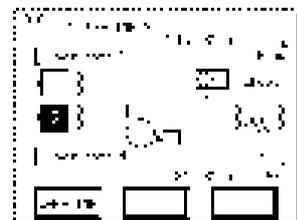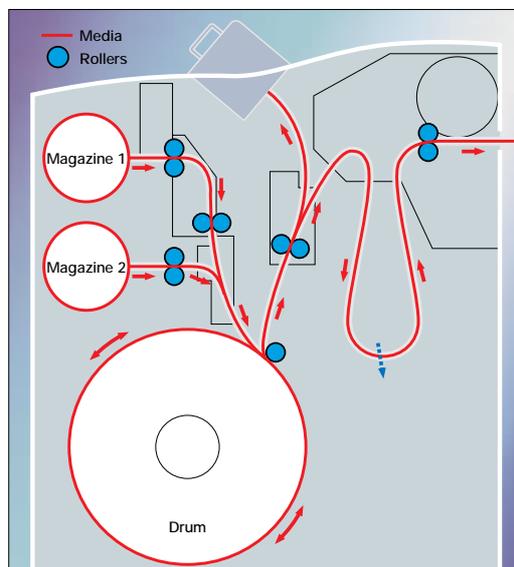
OPTIONS TO FIT YOUR WORKFLOW

Automatic internal punching

Punching can be handled automatically before imaging with an internal register punch system. Punch blocks from Stoesser, Bacher, Protocol, Graphometronik, and DS are available, which cover a range of sizes. Stoesser configurations of up to 9 pins can be selected, and Stoesser tail-punching is available for the largest supported media sizes, 838 x 1,145 mm (33" x 45"), and 838 x 1,030 mm (33" x 40.5"). All punch blocks can be retro-fitted or replaced in the field, which means the Tanto 5120 can be reconfigured as needed to support various presses.
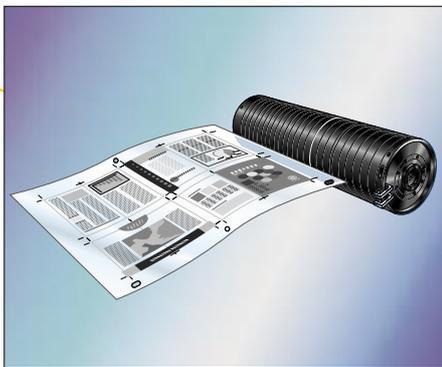
Punch system

Dual magazine system

The Tanto 5120 is equipped with a dual magazine system (the second supply magazine is optional), which increases efficiency in a variety of ways. If both supply magazines are loaded with the same size film, the unit uses the contents of each sequentially. With a different size of film loaded in each, there is no need to stop and reload between jobs.

Film, paper or flexible plates can be loaded in either cassette, to be used as needed for each job. The unit keeps track of the kind and amount of media loaded into it. The dual supply magazine configuration improves overall efficiency and makes the selection and use of photosensitive media easier.
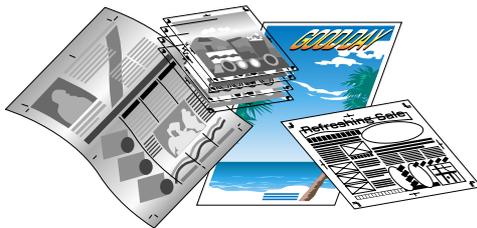
Inline processor

The optional inline processor is a compact unit, which helps keep the imagesetter/processor's combined footprint down due to its bridgeless design. The advanced processor tank design reduces chemical evaporation to provide more stable processing and reduced chemical consumption. What's more, the Tanto 5120's link to the processor features a new air curtain that prevents stray chemical vapor from drifting from the processor into the imagesetter and adversely affecting film quality.

Inline Processor
LD-M1090

## Get the most out of the Tanto 5120 with high-powered RIPs

Screen's AD-510PM, and HQ-510-series RIPs can all be used to drive the Tanto 5120. TaigaSPACE users can also use the T-RIP 600. Trueflow serves as an efficient RIP for the Tanto 5120. These RIPs all offer rastering speeds that help make the most of the Tanto 5120's lighting-fast imaging capabilities, and all support the F-PIF interface which provides double the data transmission rate of standard PIF.

The AD-510PM is based on the latest Adobe® CPSI™ (Configurable PostScript Interpreter) and offers in-RIP separation, pipeline processing and the range of new PostScript® 3™ functions. The Harlequin™ ScriptWorks-based HQ-510 RIPs now also feature PostScript Language Level 3 support. The AD-510PM also supports native PDF 1.3 input.
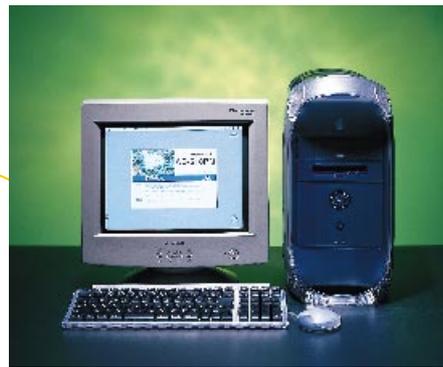
Software RIP
AD-510PM

Space Requirements

Note: Above diagrams show the Tanto 5120 with optional inline processor.

Dimensions

	A	B	C
mm	1,100	830	1,024
inches	43.3	32.7	40.4

	D	E
mm	1,854	1,650
inches	73.0	65.0

Technical Specifications

Model name	Tanto 5120 (DT-R 5120)
Exposure system	External drum
Light source	120 channel, high-power LED array (660 nm)
Resolutions	1,200, 2,000, 2,400, 3,000, 3,500*, 4,000 dpi
Repeatability	±5 microns (±0.2 mil)
Spot size	Variable: 6.35 microns at 4,000 dpi; 21.17 microns at 1,200 dpi
Exposure speed	Up to 11,948 sq.cm/min. (1,852 sq.in./min.) at 1,200 dpi
Drum speed	270 or 420 rpm
Compatible RIPs	AD-510PM; HQ-510PM and PC ; T-RIP 600, Trueflow
RIP interface	F-PIF
Weight	Basic: 490 kg (1,078 lbs.) Fully equipped: 520 kg (1,144 lbs.)
Environment	Operating: 18~28°C (64.4~82.4°F), 50~70%RH Down time: 15~33°C(59.0~91.4°F), 30~80%RH Storage: 10~40°C (50~104°F), 10~80%RH
Power requirements	Single phase 200-230 V 0.9 kW (including blower)

* *Only available with TaigaSPACE.*

Output Sizes

		Media sizes	Image sizes
Film/paper	33 inch	838 mm (33.0") x 1,145 mm (45.0")	810 mm (31.9") x 1,120 mm (44.1")*
		838 mm (33.0") x 1,030 mm (40.5")	810 mm (31.9") x 1,005 mm (39.6")*
	31.5 inch	800 mm (31.5") x 1,030 mm (40.5")	772 mm (30.4") x 1,005 mm (39.6")
	28 inch	711 mm (28.0") x 1,030 mm (40.5")	701 mm (27.6") x 1,005 mm (39.6")**
	26 inch	660 mm (26.0") x 830 mm (32.7")	650 mm (25.6") x 805 mm (31.7")**
		660 mm (26.0") x 830 mm (32.7")	632 mm (24.9") x 805 mm (31.7")
	24 inch	610 mm (24.0") x 830 mm (32.7")	582 mm (22.9") x 805 mm (31.7")
Flexible plate	31.5 inch	800 mm (31.5") x 1,030 mm (40.5")	772 mm (30.4") x 1,005 mm (39.6")

* *When tail punching is used, the imageable width of 810 mm (31.9") is reduced to 793 mm (31.2").*

** *Punching is not available for these image sizes.*

Options

Punches	B1, A1, B2, A2 size internal punch blocks
	Stoesser (B1 tail-punch also available), Bacher, Bacher USA, Protocol, DS, Graphometronik
Processor	LD-M1090 inline processor
Take-up cassette	Take-up cassette to receive film, paper, or flexible CTP material
Supply magazine	Second supply magazine

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