



# PlateRite Niagara

Thermal Plate Recorder

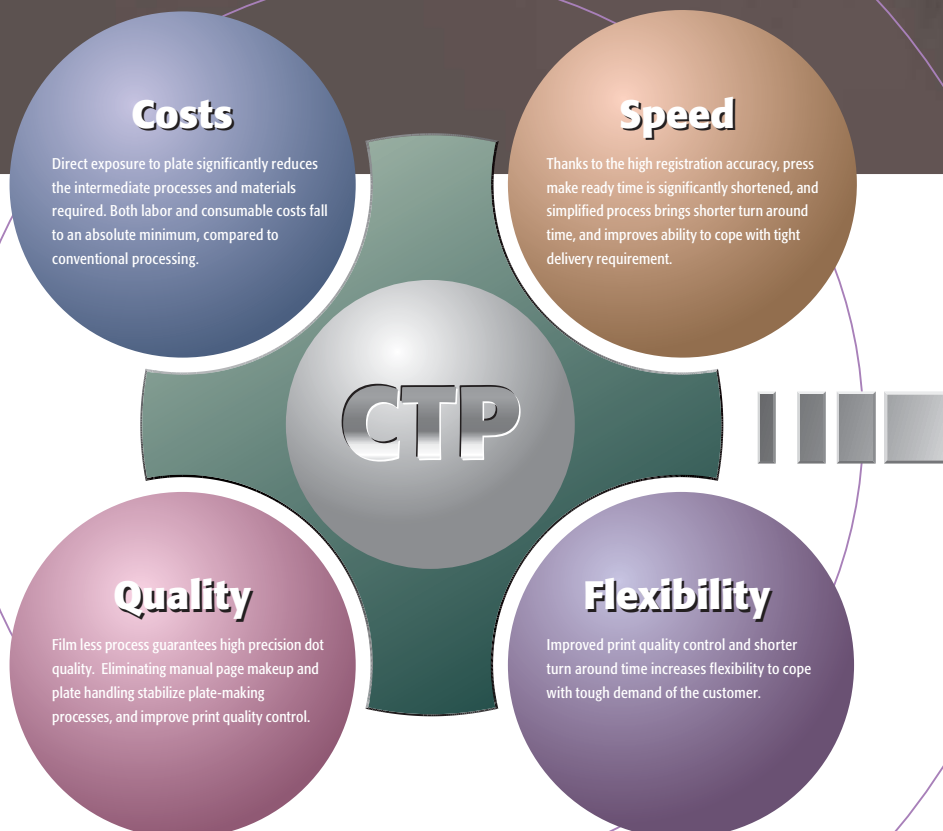
CTP



# *CtP:* *Achieve Efficient Plate Making Process*

Computer-to-plate (CtP) systems like PlateRite Niagara are capable of recording digital data created in DTP directly to printing plate for printing. In conventional processes, data is first output to film and then this film is used for exposing printing plate.—CtP removes these steps, decreasing Plate making cost and increasing processing speed.

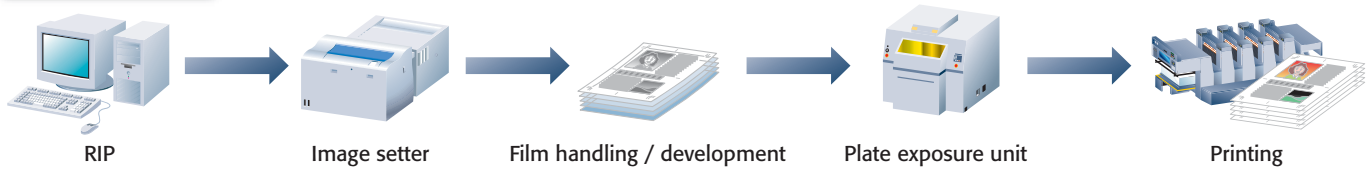
In addition, CtP enables the digital data created at the design stage to be exposed directly to the printing plate with high accuracy, and this eliminates troubles that frequently happen in the conventional processes which has many steps before the original data to be exposed on to the printing plate.



## CtP advantages

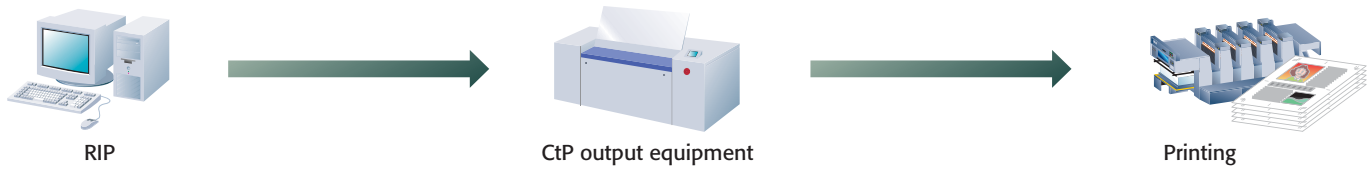
- Simplified processing and reduced labor requirements
- Higher speed and lower costs
- Greater flexibility and improved user satisfaction

### Conventional



### CtP

Minimization of intermediate processing reduces the output of both liquid and solid wastes. This low-impact system allows the creation of an environmentally friendly workflow.

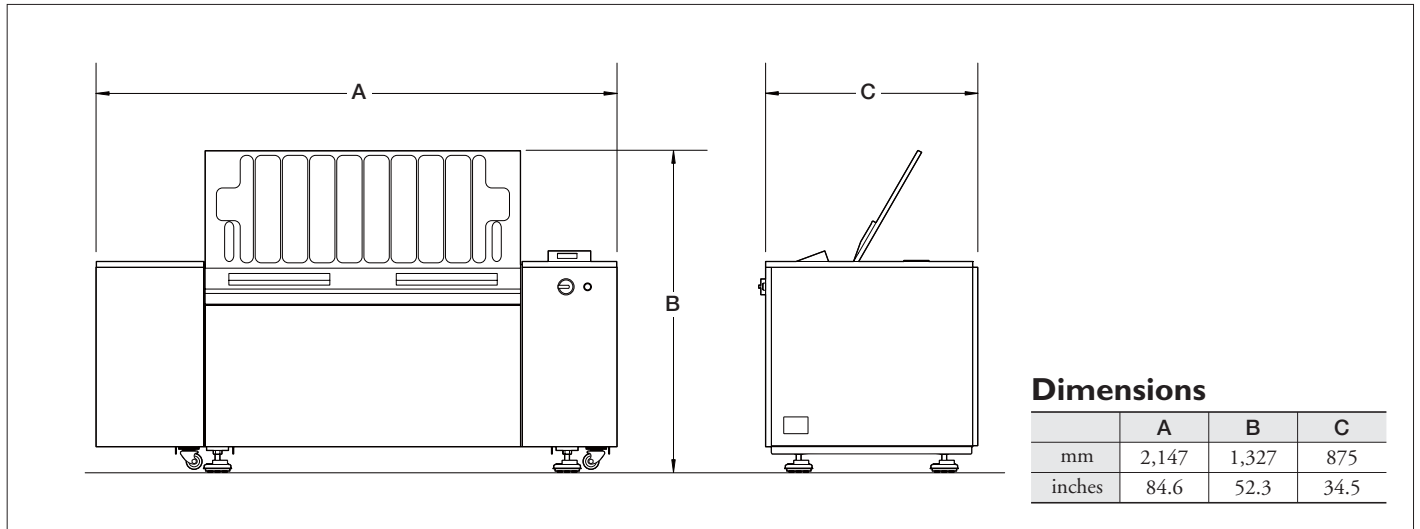


By implementing Niagara into your plate making processes brings benefit of Cost, Speed, Quality and Flexibility.

## Thermal Plate Recorder PlateRite Niagara

- Incorporates a new exposure head, developed utilizing Screen's advanced laser and optical technologies proven with the other PlateRite series. Offers all the advantages of thermal CtP's high quality, high precision, and cost performance.
- Features a space-saving, compact design. Using thermal plates eliminates the need for a dedicated darkroom like using Violet plate. Enable efficient use of the workspace
- Simple plate loading and unloading contribute to the efficiency of the plate making process.

## Space requirements



## PlateRite Niagara specifications

Recording system	External drum
Light source	84-channel laser diode
Plate size <sup>+1,2</sup>	Maximum: 1,060 x 820 mm (41.7" x 32.2") Minimum: 450 x 370 mm (17.8" x 14.6")
Exposure size	1,060 x 804 mm (41.7" x 31.6")
Media thickness	0.15 to 0.3 mm (6 to 11.8 mil)
Media Thermal plates	Thermal plates
Resolution	2400, 2438, 2540 dpi
Productivity <sup>*3</sup>	11 plates/hr at 2,400 dpi (1,030 x 800 mm/40.5" x 31.4")
Interface	F-PIF
Dimensions (W x D x H)	2,147 x 875 x 1,327 mm (84.6" x 34.5" x 52.3") (incl. transfer guide)
Weight	655 kg (1,441 lb) (incl. built-in blower)
Power requirements	Single phase 200 to 230 V ±10%, 240 V +6% -10%, 3 kW, 15 A
Environment	Recommended: 21 to 25°C (69.8 to 77°F), Required: 18 to 26°C (64.4 to 78.8°F) Relative humidity: 40 to 70% (no condensation)
Optional accessories	Signal tower unit

\*1. When the factory option is fitted, the minimum plate size is 304 x 370 mm.

\*2. Plates with widths over 570 up to 624 mm (22.5" x 24.5") cannot be used.

\*3. Productivity may vary depending on the media sensitivity.

## DAINIPPON SCREEN MFG. CO., LTD.

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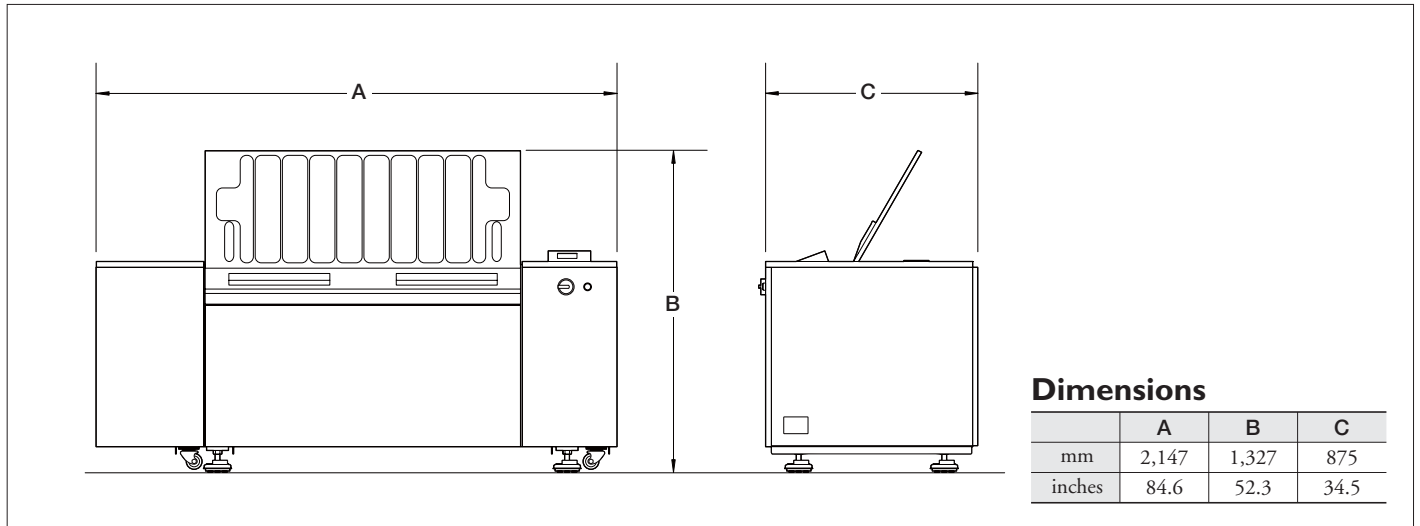
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