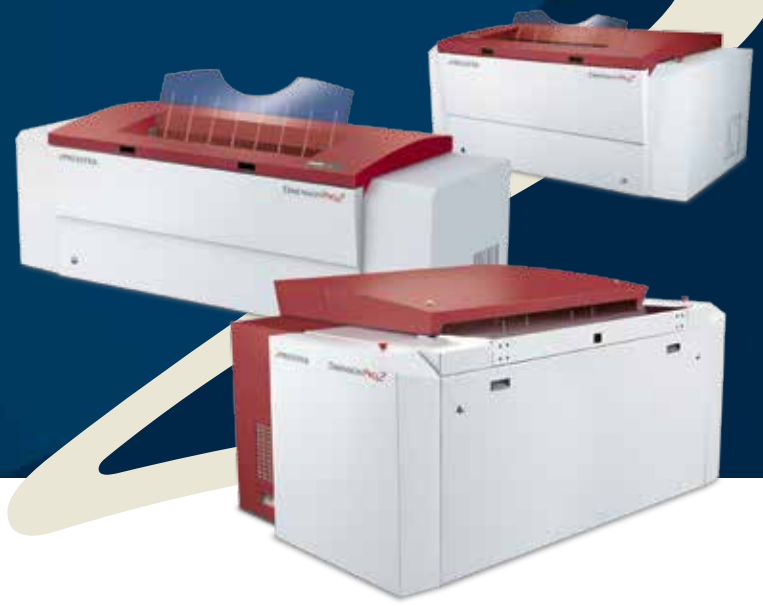
Dimension Pro2

Thermal CTP Systems For High Quality Imaging and Performance

- 830 nm thermal CTP systems
- 4- and 8-page models
- A range of price/performance choices
- Models with speeds from 16 plates up to 34 plates per hour
- Autoloading options
- Precise and consistent platemaking

DIMENSION PRO2



ECO-FRIENDLY PRINTING SOLUTIONS

PRESSTEK
A SMARTER WAY TO PRINT

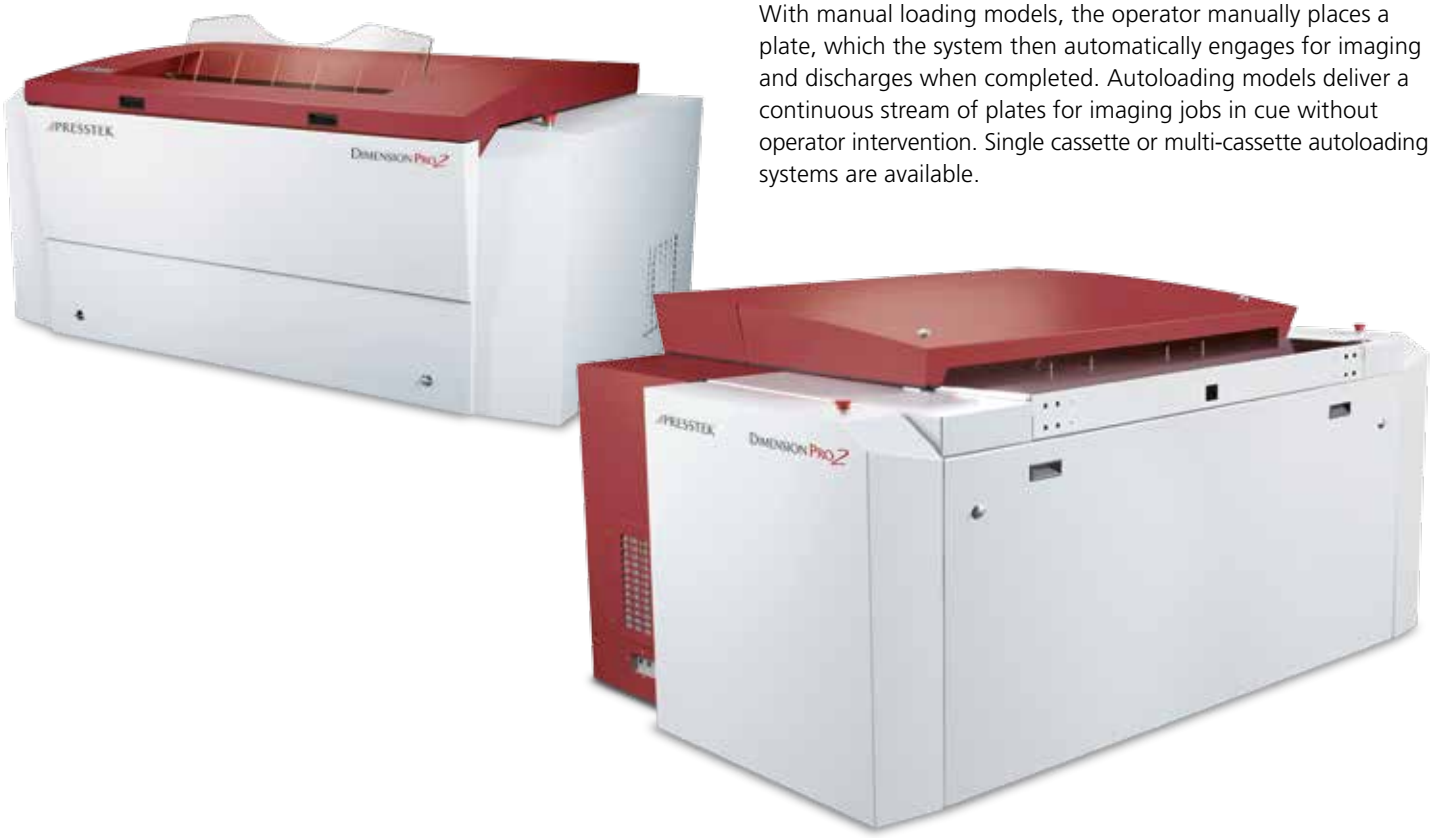
High Quality Engineering for Fast, Accurate, Reliable Performance

Presstek Dimension Pro2 models are a family of versatile and economical thermal CTP systems designed to meet the needs of small, medium and large commercial and in-plant printers. Whether you are a fast turnaround and short-run printer or printing long runs, and whether you operate a small format press, large format sheetfed or web presses, or a combination of offset presses, there is a Dimension Pro2 system you can depend on for the level of plate production your workload demands.

Preferred Technology

Thermal CTP has rapidly become the preferred platesetting technology because of its reliability and simplicity. Dimension Pro2 systems support all of the popular thermal plates on the market today, and are an optimum solution when combined with any of Presstek's high productivity, high performance thermal plates.

DIMENSION PRO2



Price/Performance Choices

The Dimension Pro2 family includes 4-page and 8-page models. Each model is offered in a range of configurations and as either manual and automatic loading systems. Choose the combination of price, performance, and speed in a system that exactly meets your business needs.

Four Speeds in 4-Page Format

Dimension Pro2 M4 (manual loading) and A4 (autoloading) systems offer a maximum plate size of 800 mm × 660 mm and are available in four configurations and speeds:

24 laser channels	16 plates per hour
32 laser channels	22 plates per hour
48 laser channels	28 plates per hour
64 laser channels	34 plates per hour

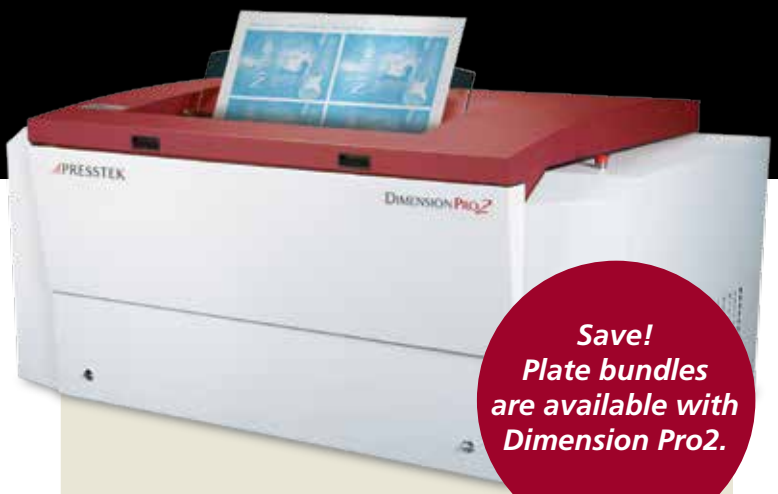
Three Speeds in 8-Page Format

Dimension Pro2 M8 (manual loading) and A8 (autoloading) systems offer a maximum plate size of 1130 mm × 920 mm and are available in three configurations and speeds:

32 laser channels	16 plates per hour
48 laser channels	22 plates per hour
64 laser channels	28 plates per hour

Autoloading

With manual loading models, the operator manually places a plate, which the system then automatically engages for imaging and discharges when completed. Autoloading models deliver a continuous stream of plates for imaging jobs in cue without operator intervention. Single cassette or multi-cassette autoloading systems are available.



Superior Engineering

With robust design and manufacturing features, combined with long-lasting components, Dimension Pro2 systems are characterised by their reliability, durability and low maintenance. Engineering features that contribute to their speed, high performance and low cost of ownership include:

- Multiple laser diodes, each rated for 10,000 imaging hours, provide fast and reliable imaging. Should a diode fail, a negligible amount of speed is lost (by 1/16 to 1/64, depending on the number of laser channels in the system).

- During plate loading and unloading, lasers are automatically balanced and adjusted within seconds for the next plate. Laser power is automatically recalibrated before exposure begins to ensure all lasers are burning at the same power level.

- Constant thermostatic control of the laser chassis to 0.1 degrees accuracy ensures accurate and stable laser performance, and longer laser life.
- Accuracy from plate-to-plate is within 5 microns. Precise adjustment eliminates dimensional deviations between plate gauges.

- DDS frequency multiplication ensures phase position within 0.03125 pixels for precise vertical and horizontal alignment of image elements.

- Third generation Dynamic Autofocus technology detects changes as small as 0.1 micron with rapid adjustment for continuous accuracy of focal length.

- Dimension Pro2 systems employ the same ceramic coated external drum technology recognized in other leading systems.
- Rapid adjustment of the drum auto balance system provides instantaneous switching to plates of different sizes.

- The drum features a unique clamping system proven to perform without fatigue or failure significantly longer than competitors' systems.
- Clamps are recommended to be replaced only every 100,000 clamps. That means clamp life is approximately five times longer than competitors' models, which often require an entire new clamping system at 20,000 clamps.

Save! Plate bundles are available with Dimension Pro2.

Maximum Productivity with Presstek Plates

Paired with any of Presstek's 830 nm thermal plates, a Dimension Pro2 is an optimum system for maximum platemaking productivity, performance and economy.

GemPlate™

GemPlate™ is a high resolution, develop-on-press, aluminum plate that eliminates prepress chemistry and streamlines workflow.

- Image, mount on press and print
- Develops on press
- Speed and ease for fast turnaround and short runs
- Durability for runs up to 250,000
- Supports 200 lpi and FM (stochastic) screening

Nytro

Nytro is a high performance photopolymer plate for sheetfed, cold-set and heat-set web, and UV presses.

- Runs up to 200,000 without preheating
- Runs of 1 million+ post-baked
- Low chemistry use; clean processing
- 300 lpi and 20 micron FM (stochastic) screening

Zahara®

Zahara is a CTP plate for high quality waterless offset printing on both sheetfed and narrow web presses. It is ideal for small, half- and mid-size sheet formats, labels, packaging, and plastic card production.

- Just image and rinse
- No dye solutions required to process plate
- 300 lpi screening
- Up to 100,000 impressions
- UV application compatible
- Chemistry-free

Technical Specifications

Dimension Pro2 M4/A4 Models

Model	M4E / A4E	M4S / A4S	M4F / A4F	M4X / A4X
Exposing Method	External Drum			
Imaging System	Discrete 830nm laser			
Number of Laser Channels	24 channels	32 channels	48 channels	64 channels
Output Speed*	16 plates per hour	22 plates per hour	28 plates per hour	34 plates per hour
Plate Size	Maximum 800mm × 660mm (31.49"× 25.98"); Minimum 254mm × 250mm (10"× 9.84")			
Image Size	Maximum 800mm × 644mm (31.49"× 25.35"); Minimum 254mm × 234mm (10"× 9.21")			
Plate Type	Thermal plate			
Plate Thickness	0.15mm–0.3mm (0.006"–0.012")			
Resolutions	2400dpi			
Repeatability	±5µm — Continuous exposure over four times on the same plate with a temperature of 23°C (73.4°F) and 60% RH			
Interface	USB2.0/USB3.0 (Recommended USB2.0)			
Net Weight	800kg (1764 lbs)			
Dimensions (W×D×H)	Manual (M4) Models: 1900mm × 1200mm × 1380mm (74.8"× 47.2"× 54.3") Autoloading (A4) Models: 1900mm × 1200mm × 1058mm (74.8"× 47.2"× 41.7")			
Power	Single phase: 200–240V; Maximum power (Peak value) 4kW			
Environment	Recommended temperature: 21-25°C (70–77°F); Operable temperature: 18-26°C (64–78°F); Humidity: 40–70%			

*Speeds are for a 800mm × 660mm (31.49"× 25.98") plate imaged at 2400dpi resolution

Dimension Pro2 M8/A8 Models

Model	M8S / A8S	M8F / A8F	M8X / A8X
Exposing Method	External Drum		
Imaging System	Discrete 830nm laser		
Number of Laser Channels	32 channels	48 channels	64 channels
Output Speed*	16 plates per hour	22 plates per hour	28 plates per hour
Plate Size	Maximum 1130mm × 920mm (44.49"× 36.22"); Minimum 300mm × 260mm(11.81"× 10.24")		
Image Size	Maximum 1130mm × 904mm (44.49"× 35.59"); Minimum 300mm × 244mm (11.81"× 9.60")		
Plate Type	Thermal plate		
Plate Thickness	0.15mm–0.3mm (0.006"–0.012")		
Resolutions	2400dpi		
Repeatability	±5µm — Continuous exposure over four times on the same plate with a temperature of 23°C (73.4°F) and 60% RH		
Interface	USB2.0/USB3.0 (Recommended USB2.0)		
Net Weight	Manual (M8) Models 900kg (1984 lbs); Autoloading (A8) Models 1200kg (2645 lbs)		
Dimensions (W×D×H)	Manual (M8) Models: 2320mm × 1080mm × 1380mm (91.3"× 42.5"× 54.3") Autoloading (A8) Models: 2127mm × 1405mm × 1058mm (83.7"× 55.3"× 41.7")		
Power	Single phase: 200–240V; Maximum power (Peak value) 4kW		
Environment	Recommended temperature: 21-25°C (70–77°F); Operable temperature: 18-26°C (64–78°F); Humidity: 40–70%		

*Speeds are for a 1030mm × 800mm (40.5"× 31.5") plate imaged at 2400dpi resolution

Recommeded air compressor specification (all models): Oil-water free compressor; capacity of 100 L/min or above; tank size 30L or above; pressure of 0.8Mpa or above; quick connector size 8mm

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Contact us to learn more about Presstek eco-friendly solutions.

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