

High Performance Chemistry-free CTP

DIMENSION
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Presstek CTP

High Performance Chemistry-free CTP

Presstek's Dimension Excel is a versatile, high performance, CTP system that streamlines workflow – imaging your digital files directly to high resolution thermal plates for superior printing performance. The Dimension Excel is highly affordable, delivers high-quality imaging, is easy to use, and is based on industry proven technology.

Dimension Excel employs daylight-safe, chemistry-free thermal imaging technology. Gone is the need for special lighting environments and plate processor maintenance. All chemical developer costs are completely eliminated including storage and disposal. There is no need to clean, monitor or maintain the processor. And there are no more remakes due to exposure or vacuum frame deficiencies or errors. All of this results in a significant reduction in platemaking cost.

Dimension Excel delivers all the quality needed to satisfy the toughest market requirements. For every type of offset printing, from annual reports and art posters to packaging and labels, the Dimension Excel produces plates quickly, cost-effectively, with the quality you and your customers demand.

The combination of Dimension Excel platesetters and Presstek's chemistry- and process-free plates provides an optimized system for higher productivity, cleaner operation and lower cost. It's a smart CTP investment strategy ...and a smarter way to print.

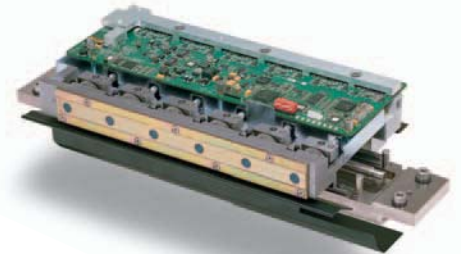
PROFIRE

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Dimension Excel systems are enabled by Presstek's thermal laser imaging technology, ProFire Excel. ProFire Excel is Presstek's next generation imaging technology; it takes full advantage of over a decade of research and development efforts and the experience of thousands of installations worldwide.

ProFire Excel builds on Presstek's award-winning ProFire technology which is already utilized in Presstek Dimension CTP systems and DI-enabled presses. ProFire Excel brings together all of the imaging components - high power infrared laser diodes, laser driver and data electronics, and motion control into one compact imaging system. ProFire Excel offers:

- rock-solid reliability
- superb quality
- fast and accurate imaging
- durability
- and long lasting laser diodes



The Dimension Excel Series is designed to meet the production requirements of your shop. Dimension Excel systems are available in two- or four-page formats. Either model can be configured as a standard (Dimension 225 and 425) or high production (Dimension 250 and 450) platemaker. The Dimension 250 and 450 Excel will output plates to an automated water wash and/or plate stacker. This can be upgraded to enable full unattended operation with the addition of an optional automatic plate loader.

Model	High Productivity Models		Standard Models	
	Dimension250 Excel	Dimension450 Excel	Dimension225 Excel	Dimension 425 Excel
Format Size	Two-page	Four-page	Two-page	Four-page
Throughput	Up to 17 plates per hour	Up to 17 plates per hour	Up to 11 plates per hour	Up to 11 plates per hour
Plate Handling	Top load with pre-stage, rear unload	Top load with pre-stage, rear unload	Top load and unload	Top load and unload
Automation	Automatic Plate Handling System	Automatic Plate Handling System	Semi-automatic	Semi-automatic
Upgrades	Optional three cassette auto loader Field upgradeable to Dimension450 Excel	Optional three cassette auto loader	Field upgradeable to Dimension425 Excel	



Experience the Benefits of Presstek CTP:

Daylight-safe operation

Presstek thermal plates have no sensitivity to visible light. Handling and imaging plates in a daylight environment improves productivity and eliminates the costs and special provisions associated with safe-light and darkroom conditions.

Chemistry-free platemaking

Presstek CTP is chemistry-free. Besides eliminating processing chemistry, Presstek CTP plates require no gumming, baking, or special cleaning fluids.

Consistency and repeatability

Presstek CTP produces the highest quality output, free of the inconsistencies in image quality associated with emulsion variances, processor condition, chemical aging, exposure problems, and environmental changes.

Reliability

From imaging heads to plates, the reliability and performance of Presstek thermal imaging products are proven in thousands of CTP installations and direct-to-press imaging applications with the world's leading press manufacturers. Presstek has installed more thermal imaging heads worldwide than any other thermal imaging manufacturer in the graphic arts industry.

Low impact installation

Freedom from chemical processing and baking, the compact size of Dimension Excel platesetters, elimination of support equipment, and operation in normal room conditions allow Presstek CTP systems to fit any plant layout.

Easy operation

Presstek CTP systems are designed for maximum ease of use and require far fewer steps to produce plates, streamlining your entire platemaking operation.

Lower cost ownership

Presstek CTP lowers costs in the short run, and in the long run. The savings in time, materials and labor mean lower overhead in your platemaking operations. With the fewest number of steps from RIP to press, a Presstek CTP system can produce more plates at a lower cost. On press, Presstek plates provide fast roll-up and run lengths to 100,000 – without baking. The daylight-safe, chemistry-free imaging of Presstek plates and compact size of Dimension platesetters make for an easy transition to Presstek CTP in any shop layout.



PRE-BAKE THERMAL CTP

VISIBLE-LIGHT CTP

NO-BAKE, CHEMICALLY PROCESSED THERMAL CTP

PRESSTEK CHEMISTRY-FREE THERMAL CTP

PRESSTEK ONE-STEP, PROCESS-FREE THERMAL CTP

Presstek CTP Specifications:

Dimension425/450 Excel

Maximum plate size (l x w) 680mm x 780mm
26.771" x 30.708"

Minimum plate size (l x w)
Dimension425 Excel 320mm x 240mm
12.598" x 9.448"

Dimension450 Excel 240mm x 240mm
9.448" x 9.448"

Maximum image size (l x w) 640mm x 768mm
25.196" x 30.236"

Throughput Dimension450 Excel
Up to 17 plates per hour

Dimension425 Excel
Up to 11 plates per hour

Dimension225/250 Excel

Maximum plate size (l x w) 560mm x 576mm
22.047" x 22.677"

Minimum plate size (l x w)
Dimension225 Excel 320mm x 240mm
12.598" x 9.448"

Dimension250 Excel 240mm x 240mm
9.448" x 9.448"

Maximum image size (l x w) 530mm x 576mm
20.866" x 22.677"

Throughput Dimension250 Excel
Up to 17 plates per hour

Dimension225 Excel
Up to 11 plates per hour

Common Specifications

Imaging technology Presstek's ProFire Excel

Plate media Presstek Anthem, Applause and PearlDry

Resolution 2540dpi (100dpmm)

Operating environment Daylight-safe
60 – 75° F
40 – 80% relative humidity
(non-condensing)
Pressroom, prepress or
general office environment

Power Three lines at:
200 to 240 VAC, 50 to 60 Hz
13 amps, minimum
(single phase),
Conditioned, uninterrupted
power recommended

Weight 2,000lbs (900kgs)

Dimensions 146cm x 83cm x 146cm
(L x W x H)
58" x 33" x 58"

Upgrade options Plate stacker for Applause



Automated plate cleaning for Anthem (transport, plate cleaner, and stacker)*

Fully automated plate loading*

* Available for Dimension250/450 Excel