AVALON N8

8-UP THERMAL PLATESETTERS

ECO3's Avalon N8 series of platesetters caters to commercial and packaging offset printers – large, medium and small. Whether you need a base configuration for day-to-day excellence, a mid-sized system for higher productivity, or a top-of-the-range performer for maximum capability, there is a perfect solution for you.

With an enviable reputation for solid dependability, these B1-sized computer-to-plate (CtP) systems prove themselves by delivering high quality, reliable consistency, and outstanding productivity for printing success.

ECO3 offers the Avalon N8 systems as part of a complete solution, including offset plates, Apogee or Amfortis workflow software, screening technologies and support contracts.

YOU PRINT. WE CARE.

Avalon N 8-up thermal platesetters

Advanced imaging. Seamless productivity. Proven reliability.

As an integral part of ECO3's total solution approach, the Avalon 8-up series of thermal platesetters delivers quality, productivity and advanced technology for print operations of all sizes.

Combining technology and throughput

While Avalon N8 entry-level platesetters feature fiber-coupled laser technology to guarantee superior quality, the high-end engines are equipped with Grating Light Valve (GLV) imaging technology, featuring both the GLV itself and a solid-state laser diode bar. The result? A large number of beams, ensuring exceptional imaging speed and a low drum rotation velocity.

Proven reliability

Avalon 8-up platesetters are capable of addressing the needs of large, medium and small-volume printers. Combine the top-of-the-range Avalon N8-90XT with the Adamas chem-free plate to reach a throughput speed of 70 plates per hour (pph) or integrate an N8-30 series machine with our newest process-free plate for effortless printing. To future-proof your business, most Avalon platesetters are also upgradable, designed to evolve with your growing requirements.

Sublime imaging quality

All Avalon N8 engines offer consistent, exceptional imaging quality to guarantee their trademark excellence. The high-end N8-90 series achieves an impressive image resolution of up to 340 lpi Sublima, while the N8-30 engines comfortably image up to 240 lpi Sublima.

Perfectly upgradable

Avalon N8 platesetters can be upgraded to meet your expanding production requirements. Using the same base engine, you can upgrade from an entry-level manual machine to a high-productivity, fully automated model by simply adding modules.

Smarter CtP: automation that delivers

Let the Expert Loader do the heavy work!

Outputting up to 70 plates per hour and offering up to 1,200 plates of uninterrupted loading, this pallet loader boosts process efficiency while eliminating the risk of plate damage.

Plates are safely loaded from the emulsion side using suction cups, while double-sheet detection reduces errors and unnecessary interruptions. Interleaves are automatically removed and collected in a large waste bin.

For added flexibility, two additional cassettes can be incorporated as an option, each accommodating 100 plates. For those with the most rigorous productivity requirements, an extension unit is available with an extra pallet adding another 1,200 plates of capacity.

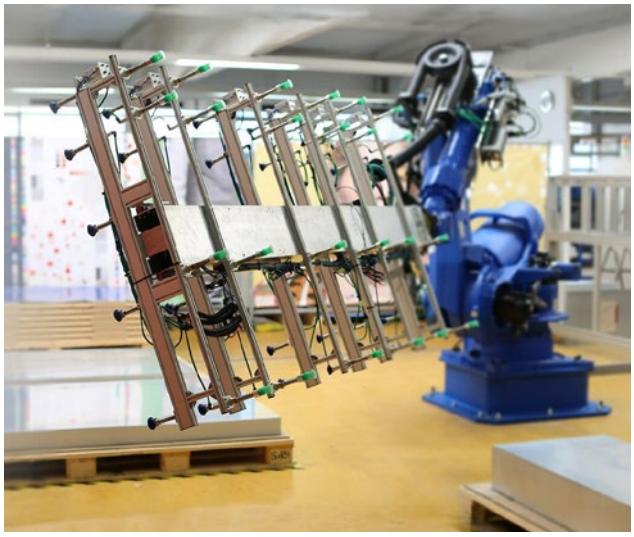
Trust the Expert Loader to load the plates directly from the pallet to the CtP engine. The only intervention required is to drive in the pallet through the accessible loading gate on the left or right where laser lines indicate the correct position. Then simply use the intuitive touch panel to control the plate production.

Integrating robotics for maximum efficiency

One of the key advantages of embracing robotics in plate loading automation is the tremendous impact on productivity. With the ability to match the maximum throughput of any commercial CtP and facilitate hours of uninterrupted production, ECO3's Robotic Plate Loader significantly boosts output.

The Robotic Plate Loader is custom-built to fit your exact needs. Even better, it is capable of feeding two plate production lines simultaneously, at an hourly speed of up to 80 printing plates irrespective of size. This set-up is especially convenient for printers that need to handle multiple plate sizes.

The Robotic Plate Loader automates multiple manual, repetitive tasks, such as loading plate cassettes used in autoloaders or fixing pallets on the base frame of skid loaders. Selecting a robotics solution also enables the use of highly efficient plate packaging concepts, which, in turn, minimizes waste and promotes environmental sustainability.



An interactive user interface makes it possible to remotely follow up the robot's movements. It sends out warnings when it is time to restack pallets or empty the interleaf bin. Naturally the Robotic Plate Loader is fully integrated with ECO3's Apogee and Amfortis workflow software, providing optimal ease of use for any print operation.

MODEL	N8-30 S	N8-30 XT	N8-90 E	N8-90 S	N8-90 XT
Imaging technology	64-channel fiber-coupled	96-channel fiber-coupled	GLV 512 beams	GLV 512 beams	GLV 1024 beams
Laser type	830 nm thermal laser diodes		830 nm thermal laser diodes		
Recording system	External drum		External drum		
Press punch	Optional, max. 4 sets		Optional, max. 6 sets		
Resolutions	1200 / 2400 / 2540 dpi		1200 / 2400 / 2540 dpi (optionally 4000 & 4800)		1200 / 2400 / 2540 dpi
THROUGHPUT					
Throughput (1030 x 800 mm, 2400 dpi, Energy Elite Eco)	24 plates per hour	32 plates per hour	36 plates per hour	48 plates per hour	70 plates per hour
PLATE LOADING & UNLOADING CONFIGURATION					
Manual loading/unloading	Yes (feed tray mandatory)		Yes		
Autoloader options	Avalon N8-AL S Avalon N8-AL M Expert Loader		Avalon N8-AL S Avalon N8-AL M Expert Loader	Avalon N8-AL S Avalon N8-AL M Expert Loader	
Robotic loading	Optional		Optional		
PLATE CHARACTERISTICS					
Min. plate size (along x around drum)	650 x 370 mm (25.5 x 14.6") Optional with punch connection kit: 304 x 370 mm (11.9 x 14.6") Optional without punch connection kit: 324 x 370 mm (12.8 x 14.6")		304 x 293 mm (11.9 x 11.5")		
Max. plate size (along x around drum)	1,160 x 940 mm (45.6 x 37.0") Optional with punch connection kit: 1,150 x 940 mm (45.3 x 37.0")		1,165 x 938 mm (45.9 x 36.9")		
Thickness	0.15 - 0.3 mm (6 - 12 mil) (Options for 0.4 mm support available)		0.15 - 0.3 mm (6 - 12 mil) (Options for 0.4 mm support available)		
Max. exposure size (along x around drum)	1,160 x 924 mm (45.6 x 36.4") Grip: 8/8 mm. With the punch connection kit (When the 8 mm clamp is set, the maximum drum rotation speed will be limited to 600 rpm. When the 8mm clamp is not installed, the leading edge clamp is 12 mm and the tail edge clamp is 12 or 8 mm.		1,165 x 938 mm (45.9 x 36.9") Grip 6/6mm.		
DIMENSIONS OF STAND-ALONE CTP DEVICE					
Weight	1,260 kg (2,778 lb)		1,115 kg (2,453 lb)		
Size (w x d x h)	4,330 x 2,200 x 1,370 mm (170.5 x 98.4 x 53.6")		2,640 x 1,475 x 1,394 mm (103.9 x 58.1 x 54.9")		
ENVIRONMENT (CTP AND AUTOLOADER)					
Temperature range	Recommended: 18-26 °C		Recommended: 18-26 °C		
Humidity range	40-70 % RH (no condensation)		40-70 % RH (no condensation)		
Power	Single-phase 220-240V, 32A		Single-phase 200-240V, 30A		

AUTOLOADERS	N8-AL S	N8-AL M
Plate capacity	100 plates (0.15 - 0.3 mm gauge) 75 plates (0.4 mm gauge)	100 plates (0.15 - 0.3 mm gauge) 75 plates (0.4 mm gauge)
Number of cassettes	1	3 (upgrade to 5)
Minimum plate size	304 x 370 mm (11.9 x 14,6")	304 x 370 mm (11.9 x 14,6")
Maximum plate size	1,165 x 940 mm (45.9 x 37.0")	1,165 x 940 mm (45.9 x 37.0")
Weight	600 kg (1,323 lb)	1,088 kg (2,381 lb) with 3 cassettes 1,160 kg (2,557 lb) with 5 cassettes
Size (w x d x h)	1,827 x 2,351 x 1,530 mm (71.9 x 91.1 x 60.2")	3,345 x 2,351 x 1,530 mm (131.7 x 91.1 x 60.2")

PALLET LOADERS	EXPERT LOADER
Plate capacity	Pallet: 1,200 plates (0.3 - 0.4 mm gauge) Cassette: 100 plates (0.15 - 0.4 mm gauge)
Number of cassettes	1 or 2
Minimum plate size	Pallet: 740 x 605 mm (29.1 x 23.8") Cassette: 500 x 400 mm (19.7 x 15.7")
Maximum plate size	1,165 x 950 mm (45.9 x 37.4") *cassette
Weight	750 kg (1654 lb)
Size (w x d x h)	2,930 x 1,850 x 1,550 mm (115.4 x 72.8 x 61.0")

ECO3.com ECO3 is committed to continuous innovation that targets ecology, economy and extra convenience. Our solutions are designed to deliver higher productivity, lower costs and greener outcomes.

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