



AVALON 8-UP THERMAL PLATESETTERS

From entry-level to high-end engines – the Avalon 8-up series of thermal platesetters has a best-in-class solution in store for every need.





Avalon 8-up thermal platesetters

Affordable excellence. Full-blown performance.

Affordable excellence that will help your commercial printing business thrive – that's the promise of Avalon 8-up platesetters. With their reputation for solid dependability, these CtP engines prove themselves in terms of quality, consistency and productivity, and they're sustainable to boot. Opt for one of these top performers and unlock the full potential of your commercial printing business.



Robust press punch blocks

Sublime imaging quality

Avalon 8-up engines yield consistent, first-rate imaging quality of up to 340 lpi Sublima, depending on your model. Even entry-level platesetters like the Avalon N8-30 outdo the competition in imaging resolution (up to 280 lpi Sublima), guaranteeing Avalon's trademark excellence.

Industry-leading productivity

One of Agfa's star performers, Avalon addresses the needs of large, medium and small-volume printers. Combine the Avalon N8-90XT and the Energy Elite Eco printing plate to reach a throughput speed of 70 pph. Or, opt for one of the entry-level engines, which also deliver best-in-class productivity. Most of the Avalon platesetters are also upgradable, and evolve with you as your business grows.

Going all out on productivity? Achieve a sustainable competitive advantage with Agfa's Expert Loader – a compact pallet loader for full prepress automation up to 1,200 plates of uninterrupted loading.

Large, medium and small-volume printing

The Avalon 8-up series features entry-level engines as well as high-performance platesetters. Quality, productivity and advanced technology are a given. Simply select the engine that suits your needs in terms of throughput speed, features and scalability, and start boosting your business.

Avalon 8-up entry-level engines: affordable excellence

Based on the performances of high-end engines, the entry-level platesetters (N8-30S, N8-30XT) yield top-notch imaging quality up to 280 lpi Sublima at a competitive throughput speed of up to 32 pph. Relying on proven fiber-coupled laser technology, they stand apart from the competition... and help your business stand out.

The entry-level engines feature manual loading, and can be upgraded with an autoloader.

Avalon N8-30 is available as standalone and perfectly upgradable with a press punching system and single or multi autoloader.

Avalon 8-up series in a nutshell

- 8-up external drum thermal platesetters featuring proven, state-of-the-art technology.
- Consistent performance and output quality with imaging resolutions up to 340 lpi Sublima.
- Throughput speed of up to 70 pph, depending on model and plate.
- Multiple automation options, such as a single- or multi-cassette loader or a pallet loader.
- Integration with Agfa's Apogee prepress workflow solution.



State-of-the-art external drum

Avalon 8-up high-end engines: full-blown performance

Taking it one step further, the Avalon 8-up engines N8-90E, N8-90S and N8-90XT are equipped with the last generation of GLV (grating light valve) imaging technology, resulting in higher throughput speed (up to 70 pph in B1 size) and imaging quality (up to 340 lpi Sublima). These upgradable Avalon 8-up superstars feature multiple automation options, including Agfa's Expert Loader.

The internal airflow design reduces the risk of imaging head contamination, which guarantees optimal imaging quality and reduces maintenance frequency. And to top it all off: N8-90 engines are green performers, consuming up to 88% less energy in standby mode (vs. the previous generation).

By adding optional press punch blocks, imaged plates can get the right punches and be loaded straight onto presses, eliminating further manual steps and dramatically decreasing make-ready time.



Going all out with the Expert Loader

Most Avalon 8-up platesetters can be combined with a single or multi-cassette autoloader for increased automation and productivity. For the high-end Avalon N8-90 engines, there's a second option: the Expert Loader. This compact 8-up pallet loader comes in two models – the Expert Loader Fix and the Expert Loader Var.

EXPERT LOADER FIX	EXPERT LOADER VAR
<ul style="list-style-type: none">• Room for one pallet (1,200 plates)• Plates: 740 x 605 to 1165x 950 mm (gauge 0.24-0.4 mm)• 2 predefined plate sizes• Optional addition of 1 cassette (100 extra plates)	<ul style="list-style-type: none">• Room for one pallet (1,200 plates)• Plates: 740 x 605 to 1165 x 950 mm (gauge 0.24-0.4 mm)• Automatic plate size detection• Optional addition of 1 or 2 cassettes• Optional extension unit (for a second pallet)

Full prepress automation

Let the Expert Loader do the heavy work for you! Outputting up to 70 plates per hour, and offering up to 1,200 plates of uninterrupted loading, this pallet loader boosts your process efficiency while it excludes the risk of damage.

Plates are safely loaded from the emulsion side through suction cups, while double sheet detection reduces errors and unnecessary interruptions. Interleaves are automatically disposed of into a large trolley with a capacity of 400 m of paper.

The Expert Loader Fix works with maximally two predefined plate sizes. It is possible to add an extra cassette with a capacity of 100 plates. The Expert Loader Var automatically detects the plate sizes, so there is no need to predefine them. Optionally, up to two extra cassettes with a capacity of 100 plates can be added. Moreover, the Expert Loader Var can be equipped with an extension unit containing an extra pallet of 1,200 plates, catering to even the highest productivity demands.

Convenience is key

Trust the Expert Loader to load your plates directly from the pallet to the CtP engine. The only thing you have to do is drive in the pallet through the accessible loading gate on the left or right – the choice is yours. Leave it up to the advanced laser lines to indicate the correct position of your pallet, and use the intuitive touch panel to control plate production.



Expert Loader for increased productivity

Plate loading robot

To streamline prepress workflow and boost productivity, the Avalon 8-up and VLF platesetters can be automatically loaded by a robotic plate loader. It is custom-built according to your exact needs and can simultaneously feed two plate production lines with a speed of up to 80 printing plates per hour, independent of plate size. The set-up is especially convenient if you need to handle multiple plate sizes (up to five).

The robotic plate loader automates otherwise manual, repetitive tasks such as plate loading cassettes of autoloaders, or fixing pallets on the base frame of skid loaders. It replaces up to two autoloaders and two skid loaders, reducing the footprint by at least 20 to 30%.

The robotic plate loader is fully integrated with Agfa's Apogee and Amfortis workflow software, providing optimal ease of use.



The ultimate productivity boost



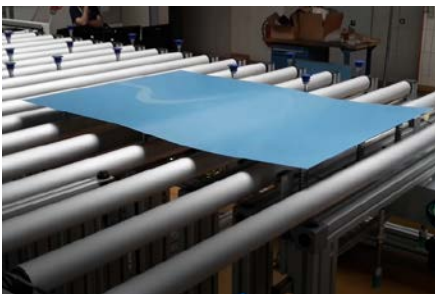
The printing plates are stacked emulsion down on a pallet. Sensors detect the stack's height and position. The front side of the picking arm takes up the plates.



The picking arm turns 180° to pick up the interleaf with its backside.



The interleaves are picked up and disposed flat in a bin.



The plate is delivered to the transfer table...



... from where it moves onto the CTP unit.



The interactive GUI makes it possible to follow up the robot's movements, and sends out warnings when it is time to restack pallets or empty the interleaf bin.

Agfa at your service

Agfa goes beyond offering best-in-class CtP engines – choosing our products and services means choosing innovation, industry-leading quality and a streamlined production process in which all components are perfectly aligned and synchronized with one another. And, of course, we gladly offer you support and guidance where needed.



ECO³

Agfa is committed to sustainable innovation focused on ecology, economy, and extra convenience – or ECO³. We develop integrated solutions – consisting of hardware, consumables, software and services – that streamline your prepress and printing operations and make them cleaner, more cost-effective and easier to operate and maintain. All while guaranteeing superior and consistent print quality.

The result? More value for your entire business!



Specifications

	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				
Recording system	External drum				
Press punch	optional, max 4 sets		optional, max 6 sets		
RESOLUTION					
1200 dpi	yes	yes	yes	yes	yes
2400 dpi	yes	yes	yes	yes	yes
2540 dpi	yes	yes	yes	yes	yes
4000 dpi	n/a	n/a	factory option	factory option	n/a
4800 dpi	n/a	n/a	factory option	factory option	n/a
THROUGHPUT					
Throughput pph, 1030 x 800 mm, 2400 dpi Energy Elite Eco	24	32	36	48	70
PLATE LOADING & UNLOADING CONFIGURATION					
Manual loading	yes (feed tray mandatory)	yes (feed tray mandatory)	yes	yes	yes
Semi-manual loading	n/a	n/a	n/a	n/a	n/a
Automatic (autoloader)	yes	yes	yes	yes	yes
Pallet loader	n/a	n/a	yes	yes	yes
Manual unloading	yes	yes	yes	yes	yes
In line unloading	yes	yes	yes	yes	yes
PLATE CHARACTERISTICS					
Min. plate size (along drum x around drum)	650 mm x 370 mm (25.5" x 14.6") 304 mm x 370 mm (11.9" x 14.6") * 324 mm x 370 mm (12.8" x 14.6") **		304 mm x 293 mm (11.9" x 11.5")		
* small plate size with punch connection kit ** small plate size without punch connection kit					
Max. plate size (along drum x around drum)	1160 mm x 940 mm (45.6" x 37.0") *1150 mm x 940 mm (45.3" x 37.0")		1165 mm x 938 mm (45.9" x 36.9")		
* with punch connection kit					
Thickness	0.15 mm-0.3 mm (6-12 mil, options for 0.4 mm support available)				
Max. exposure size (along drum x around drum)*	1160 mm x 924 mm (45.6" x 36.4") (grip 8/8 mm)*		1165 mm x 938 mm (45.9" x 36.9") (grip 6/6mm)		
*with punch connection kit (When the 8 mm clamp is set, the maximum drum rotation speed will be limited to 600 rpm. When the 8 mm clamp is not installed, the leading edge clamp is 12 mm and the tail edge clamp is 12 or 8 mm.)					
DIMENSIONS					
Weight	1260 kg (2778 lb)		1115 kg (2453 lb)		
Dimension (w x d x h)	2530 x 1495 x 1280 mm (99.6" x 58.9" x 50.4")		2640 mm x 1475 mm x 1394 mm (103.9" x 58.1" x 54.9")		
ENVIRONMENT (CTP AND AUTOLOADER)					
Temperature range	Recommended: 18-26 °C				
Humidity range	40-70 % RH (no condensation)				
Power	Single-phase 220-240V, 32A		Single-phase 220-240V, 30A		



Plate loading automation

	N8-AL E (FOR N8-30 S/XT AND N8-90 E/S)	N8-AL S (FOR N8-30 S/XT AND N8-90 E/S/XT)	N8-AL M (FOR N8-30 S/XT AND N8-90 E/S/XT)	EXPERT LOADER (FOR N8-90 E/S/XT)
Plate capacity	100 plates (0.15 mm - 0.3 mm)	100 plates (0.15 mm - 0.3 mm) 75 plates (0.4 mm)	100 plates (0.15 mm - 0.3 mm) 75 plates (0.4 mm)	Pallet: 1200 plates (0.3 mm - 0.4 mm) Cassette: 100 plates (0.15 mm - 0.4 mm)
Number of cassettes	none (plates are positioned on the table)	1	3 (upgrade to 5)	1 or 2
Min./max. plate size	1165 mm x 950 mm (45.9" x 37.4") / 304 mm x 305 mm (11.9" x 12.0")	1165 mm x 940 mm (45.9" x 37.0") / 304 mm x 370 mm (11.9" x 14.6")	1165 mm x 940 mm (45.9" x 37.0") / 304 mm x 370 mm (11.9" x 14.6")	740 mm x 605 mm (29.1" x 23.8") (500 mm x 400 mm (19.7" x 15.7") with cassette) / 1165 mm x 950 mm (45.9" x 37.4")
Weight	300 kg (662 lb)	600 kg (1323 lb)	1160 kg (2557 lb) 5 cassettes 1088 kg (2381 lb) 3 cassettes	750 kg (1654 lb)
Size (w x d x h)	1700 mm x 1510 mm x 1285 mm (66.9" x 59.4" x 50.6"), when connected directly to Avalon N8-30	1827 mm x 2351 mm x 1530 mm (71.9" x 91.1" x 60.2")	3345 mm x 2351 mm x 1530 mm (131.7" x 91.1" x 60.2")	2930 mm x 1850 mm x 1550 mm (2395 mm with open hood) (115.4" x 72.8" x 61.0" (94.3" with open hood))

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