



# Avalon VLF thermal platesetters

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Avalon VLF (Very Large Format) computer-to-plate (CtP) engines are star performers in efficiency- and quality-driven plate production – perfect for growing your commercial printing business. They will handle any plate size from 16- to 48-up.

# Avalon VLF thermal platesetters



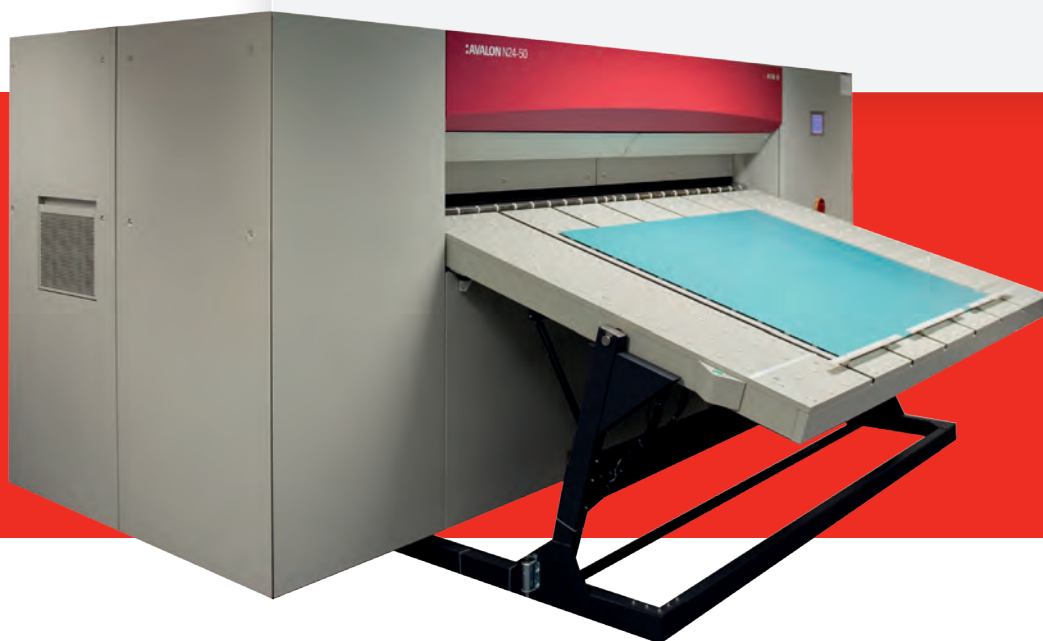
## Big benefits. Big results.

Unlock the full potential of your commercial printing business with the sustainable Avalon VLF (Very Large Format) computer-to-plate (CtP) engines. Handling plates of up to 2900 x 1350 mm and achieving a maximum throughput speed of 68 pph, these thermal platesetters are unique among their kind and prove themselves in productivity and flexibility.

The Avalon VLF series comes in different levels of automation to match your preferred workflow and available floor space, yet consistently offers prime imaging quality. All platesetters are equipped with Grating Light Valve (GLV) imaging technology, enabling the spotless transfer of your digital creations directly onto the printing plate.

### Avalon VLF in a nutshell

- VLF external drum thermal platesetters featuring proven technology and consistent output quality with imaging resolutions up to 340 lpi Sublima.
- Throughput speed of up to 68 pph, depending on model, plate type and plate size.
- Upgradable engines featuring press punching and exceptional registration accuracy.
- Multiple automation options, such as a multi-cassette loader and a skid loader.
- Integration with Agfa Graphics' Apogee prepress workflow solution.



## Agfa Graphics, your VLF expert

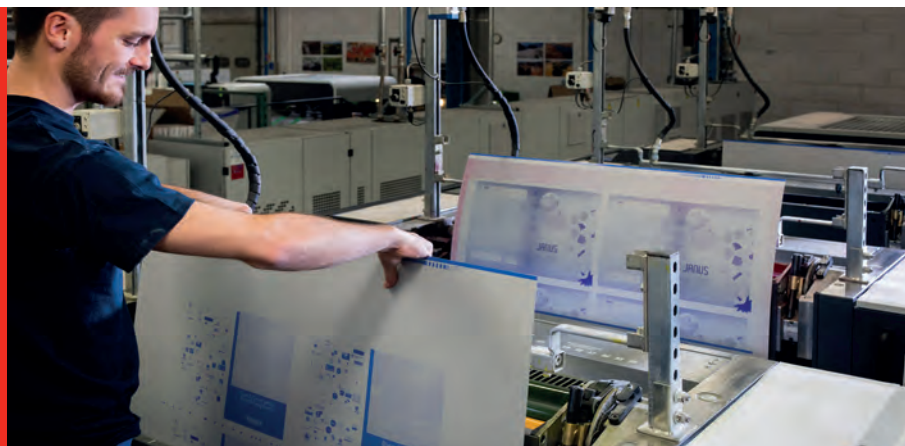
Productivity is of the utmost importance to large commercial printing companies that are under extreme time pressure. Boasting years of experience in very large format printing, Agfa Graphics is the ideal partner to help these printers accomplish advanced process efficiency and automation, as well as cost control, in their prepress department. We even offer a CtP engine that handles plates up to 2900 mm wide for the largest-sized presses – the Avalon VLF N48.

## Industry-leading productivity

Thanks to their advanced GLV technology, Avalon VLF engines offer best-in-class productivity and throughput speed. Combine the N24-70-XT or N36-70-XT with the Energy Elite Eco printing plate, for example, to produce no fewer than 68 plates per hour and still deliver premium-quality results.

For those who need an extra-powerful productivity boost, there is a press punching system available for Avalon VLF engines, significantly shortening make-ready time. Add the necessary punching blocks for your different presses and get ready to speed things up. More productivity-increasing options include dual plate loading and twin imaging, depending on the model.

On-line press punching available



# AVALON VLF THERMAL PLATESETTERS

## Specifications

Model	N16-90 E	N16-90 S	N16-90 XT	N24-50 SD	N24-50 XT	N24-70 SD	N-24-70 XT
Imaging technology	GLV 512 beams		GLV 1024 beams	GLV 512 beams		GLV 1024 beams	
Laser type	830 nm thermal laser diodes						
Recording system	External drum						
Dual loading	n/a			yes	n/a	yes	n/a
Twin imager	n/a				yes	n/a	yes
Press punch	optional, max 5 sets						
<b>Resolution</b>							
1200 dpi	yes			n/a			
2400 dpi	yes						
2540 dpi	yes			n/a			
4000 dpi	n/a						
4800 dpi	n/a						
<b>Plate loading &amp; unloading configuration</b>							
Manual loading	yes			n/a			
Semi-manual loading	n/a			yes			
Automatic (autoloader)	yes						
Pallet loader	yes						
Manual unloading	yes						
In line unloading	yes						
<b>Throughput</b>							
Depending on plate width	1030 mm (40.5 in): 20 pph 1448 mm (57 in): 17 pph	1030 mm (40.5 in): 37 pph 1448 mm (57 in): 29 pph	1030 mm (40.5 in): 46 pph 1448 mm (57 in): 42 pph	1030 mm (40.5 in): 34 pph 1700 mm (70 in): 20 pph	1030 mm (40.5 in): 56 pph 1700 mm (70 in): 30 pph	1030 mm (40.5 in): 44 pph 1700 mm (70 in): 24 pph	1030 mm (40.5 in): 68 pph 1700 mm (70 in): 33 pph
<b>Plate characteristics</b>							
Max. plate size (along drum x around drum) *dual loading	1470 mm x 1180 mm (57.9" x 46.5")			1750 mm x 1400 mm (68.8" x 55.1") 1060 mm x 1400 mm (41.7" x 55.1")	1750 mm x 1400 mm (68.8" x 55.1")	1750 mm x 1400 mm (68.8" x 55.1") 1060 mm x 1400 mm (41.7" x 55.1")	1750 mm x 1400 mm (68.8" x 55.1")
Min. plate size (along drum x around drum) * dual loading	650 mm x 550 mm (25.6" x 21.7") 450 mm x 370 mm (17.7" x 14.6") *optional plate width between 570 mm and 624 mm cannot be used (size limitation)			650 mm x 550 mm (25.6" x 21.7") 500 mm x 550 mm (19.7" x 21.7") *factory optional			
Thickness	0.2 mm-0.4 mm (8-16 mil) *0.15 mm thickness can be used only for the optional min. size of 450 mm x 370 mm; 0.4 mm thickness plates can only be used when they are larger than 1030 mm x 770 mm			0.2 mm - 0.4 mm (8 - 16 mil) 0.5 mm (20 mil) optional			
Max. exposure size (along drum x around drum) *dual model (with registration punches - Leading edge grip: 8 mm; Trailing edge grip: 7 mm)	1470 mm x 1169 mm (57.9" x 46.0")			1750 mm x 1385 mm (68.8" x 54.5") 1060 mm x 1385 mm (41.7" x 54.5")	1750 mm x 1385 mm (68.8" x 54.5")	1750 mm x 1385 mm (68.8" x 54.5") 1060 mm x 1385 mm (41.7" x 54.5")	1750 mm x 1385 mm (68.8" x 54.5")

Model	N36-50 SD	N36-50 XT	N36-70 SD	N36-70 XT	N40-50 SD	N40-70 SD	N48-50 SD	N48-70 SD	
Imaging technology	GLV 512 beams		GLV 1024 beams		GLV 512 beams	GLV 1024 beams	GLV 512 beams	GLV 1024 beams	
Laser type	830 nm thermal laser diodes								
Recording system	External drum								
Dual loading	yes	n/a	yes	n/a	yes				
Twin imager	n/a	yes	n/a	yes	no				
Press punch	optional, max 5 sets								
<b>Resolution</b>									
1200 dpi					n/a				
2400 dpi					yes				
2540 dpi					n/a			yes	
4000 dpi					n/a				
4800 dpi					n/a				
<b>Plate loading &amp; unloading configuration</b>									
Manual loading					n/a				
Semi-manual loading					yes				
Automatic (autoloader)					yes				
Pallet loader					yes				
Manual unloading					yes				
In line unloading					yes				
<b>Throughput</b>									
Depending on plate width	1030 mm (40.5 in): 34 pph 2032 mm (80 in): 19 pph	1030 mm (40.5 in): 58 pph 2032 mm (80 in): 28 pph	1030 mm (40.5 in): 44 pph 2032 mm (80 in): 23 pph	1030 mm (40.5 in): 68 pph 2032 mm (80 in): 33 pph	1030 mm (40.5 in): 34 pph 2280 mm (90 in): 17 pph	1030 mm (40.5 in): 41 pph 2280 mm (90 in): 20 pph	1030 mm (40.5 in): 34 pph 2900 mm (114.7 in): 14 pph	1030 mm (40.5 in): 42pph 2900 mm (114.7 in): 16 pph	
<b>Plate characteristics</b>									
Max. plate size (along drum x around drum) *dual loading	2100 mm x 1600 mm (82.6" x 62.9") 1060 mm x 1600 mm (41.7" x 63")*	2100 mm x 1600 mm (82.6" x 62.9")	2100 mm x 1600 mm (82.6" x 62.9") 1060 mm x 1600 mm (41.7" x 63")*	2100 mm x 1600 mm (82.6" x 62.9")	2280 mm x 1600 mm (89.7" x 62.9") 1060 mm x 1600 mm (41.7" x 63")*	2280 mm x 1600 mm (89.7" x 62.9") 1060 mm x 1600 mm (41.7" x 63")*	2900 mm x 1350 mm (114.1" x 53.1") 1450 x 1350 mm (57.0" x 53.1")*	2900 mm x 1350 mm (114.1" x 53.1") 1450 x 1350 mm (57.0" x 53.1")*	
Min. plate size (along drum x around drum) * dual loading	650 mm x 550 mm (25.6" x 21.7") 500 mm x 550 mm (19.7" x 21.7") *factory optional						1451 mm x 550 mm (57.1" x 21.6") 650 mm x 550 mm (25.6" x 21.7")		
Thickness	0.2 mm - 0.4 mm (8 - 16 mil) 0.5 mm (20 mil) optional								
Max. exposure size (along drum x around drum) *dual model (with restartion punches - Leading edge grip: 8 mm; Trailing edge grip: 7 mm)	2100 mm x 1585 mm (82.6" x 62.4") 1060 mm x 1585 mm (41.7" x 62.4")*	2100 mm x 1585 mm (82.6" x 62.4")	2100 mm x 1585 mm (82.6" x 62.4") 1060 mm x 1585 mm (41.7" x 62.4")*	2100 mm x 1585 mm (82.6" x 62.4")	2280 mm x 1588 mm (89.7" x 62.5") 1060 mm x 1588 mm (41.7" x 62.5")	2280 mm x 1588 mm (89.7" x 62.5") 1060 mm x 1588 mm (41.7" x 62.5")	2900 mm x 1335 mm (114.1" x 52.5") 1450 mm x 1335 mm (57.0" x 52.5")	2900 mm x 1335 mm (114.1" x 52.5") 1450 mm x 1335 mm (57.0" x 52.5")	



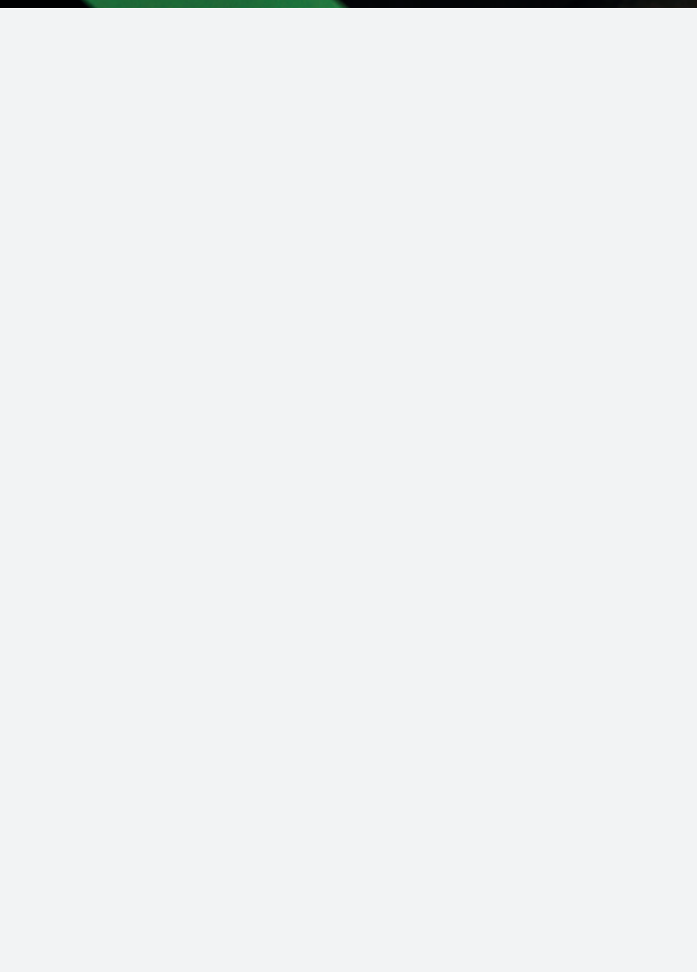


## Boosting your business

Productivity, quality and advanced technology are a given with the Avalon VLF series. Simply select the engine that suits your needs in terms of plate size, throughput speed and features, and start boosting your business. All engines can be upgraded with both a multi-cassette loader, while most can be equipped with a pallet loader too.

## Premium imaging quality

Avalon VLF platesetters yield consistent, first-rate imaging quality of up to 340 lpi Sublima. All models are equipped with GLV technology for precise imaging, exceptional tonal accuracy and uniformity from job to job. So, whether you opt for a mid- or full-size engine, expect Avalon's trademark excellence. and be loaded straight onto presses, eliminating further manual steps and dramatically decreasing make-ready time.



# AVALON VLF PLATELOADERS

## Specifications

Model	N16-90 E	N16-90 S	N16-90 XT	N24-50 SD	N24-50 XT	N24-70 SD	N-24-70 XT
Autoloaders	N16-90 AL-M (Triple L, R, L/R)	N16-90 AL-M (Triple L, R, L/R)	N16-90 AL-M (Triple L, R, L/R)	N40 AL-M	N40 AL-M	N40 AL-M	N40 AL-M
Plate capacity	0.3 mm, 75 plates per cassette 0.4 mm, 60 plates per cassette						
Number of cassettes	3 (upgrade to 6)			4			
Min./max. plate size	650 mm x 550 mm (25.6" x 21.7") / 1470 mm x 1180 mm (57.8" x 46.4")			500 mm x 550 mm (19.7" x 21.7") / 2280 mm x 1600 mm (89.7" x 62.9")			
Weight	1150 kg (2514 lb)			2540 kg (5599 lb)			
Dimension	3150 mm x 3215 mm x 1715 mm (124.0" x 126.6" x 67.5")			3365 mm x 4123 mm x 1850 mm (132.4" x 162.3" x 72.8")			

### Environment (CtP and autoloader)

Temperature range	Recommended: 21-25 °C	
Humidity range	40-70 % RH (no condensation)	
Power	Single-phase 200-240V, 25A	Single-phase 200-240V, 10A

Model	N36-50 SD	N36-50 XT	N36-70 SD	N36-70 XT	N40-50 SD	N40-70 SD	N48-50 SD	N48-70 SD	
Autoloaders	N40 AL-M	N40 Pallet Loader	N40 Pallet Loader	N40 Pallet Loader	N40 Pallet Loader	N40 Pallet Loader	N48 Pallet Loader	N48 Pallet Loader	
Plate capacity	0.3 mm, 75 plates per cassette 0.4 mm, 60 plates per cassette	600 plates							
Number of cassettes	4	n/a							
Min./max. plate size	500 mm x 550 mm (19.7" x 21.7") / 2280 mm x 1600 mm (89.7" x 62.9")	800 mm x 550 mm (31.5" x 21.7") / 2280 mm x 1600 mm (89.7" x 62.9")					1000 mm x 750 mm (39.4" x 29.5") / 2900 mm x 1350 mm (114.2" x 53.2")		
Weight	2540 kg (5599 lb)	1780 kg (3925 lb)					1850 kg (4079 lb)		
Dimension	3365 mm x 4123 mm x 1850 mm (132.4" x 162.3" x 72.8")	3415 mm x 2120 mm x 2076 mm (134.5" x 83.5" x 81.7")					4035 mm x 2175 mm x 2146 mm (158.9" x 85.6" x 84.5")		

### Environment (CtP and autoloader)

Temperature range	Recommended: 21-25 °C	
Humidity range	40-70 % RH (no condensation)	
Power	Single-phase 200-240V, 10A	Single-phase 200-240V, 15A
		Single-phase 200-240V, 35A



## Agfa Graphics at your service

Agfa Graphics goes beyond offering best-in-class CtP engines – choosing our products and services means choosing 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



## ECO<sup>3</sup>

Agfa Graphics is committed to sustainable innovation that focuses on ecology, economy, and extra convenience— or ECO<sup>3</sup>. Our hardware, software and consumables make your prepress and printing operations cleaner, more cost-effective and easier to operate and maintain. The ultimate goal? More value for your entire printing business!

**The ultimate goal? Creating value for you!**



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