



AVALON C VLF

16-UP TO 24-UP PLATESETTERS

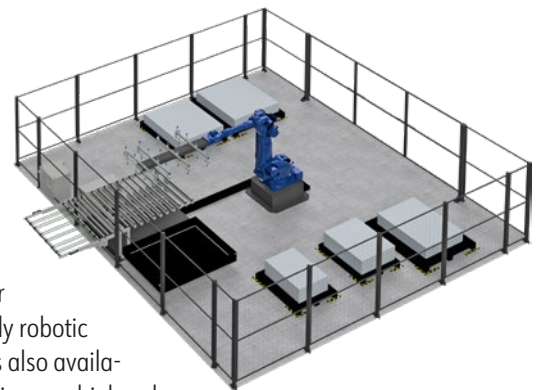
Designed as an entry-level VLF CtP solution, the Avalon C series offers a strong balance of performance, reliability and investment value. Supporting both 16-up and 24-up VLF formats, it provides a cost-effective way for commercial and packaging printers to benefit from thermal imaging and consistent plate quality. The platesetters can be configured to meet a wide range of production needs, from manual plate loading to fully automated operation. This flexibility makes the Avalon C series a practical, future-proof solution for VLF plate making.

As part of ECO3's integrated ecosystem, the Avalon C systems fit seamlessly into a complete solution, including offset plates, Apogee or Amfortis workflow software, advanced screening technologies and dedicated support services.

YOU
PRINT.
WE
CARE.

The Avalon C16/C24-90 VLF platesetters are designed for printers who need robust large-format CtP performance combined with the flexibility to scale automation over time. With support for a wide range of plate formats and throughputs, the Avalon C VLF series adapts easily to evolving production requirements while maintaining precise, stable output.

- VLF external drum architecture featuring proven technology and consistent output quality with imaging resolutions up to 280 lpi Sublima
- Throughput speed of up to 29 plates per hour depending on the model, plate type and plate size
- Built in punching system available with up to 3 sets



Automation that drives efficiency

Automate your plate production with the C16/C24-90 ALS engines, featuring an autoloader system with a capacity of up to 100 plates. By combining automatic plate loading, laser imaging and inline punching into a single workflow, it simplifies the handling of oversized plates while improving efficiency and reducing the risk of damage. If you are looking to further boost automation, you can opt for the Expert Loader, which can hold one pallet and can even be extended to hold another pallet and two additional cassettes.

To maximize automation and minimize operator intervention, a fully robotic loading solution is also available, enabling continuous, high-volume plate production. It is custom-built according to your exact needs and can simultaneously feed two plate production lines.

Seamless workflow integration

Avalon systems are tightly integration with ECO3's Apogee and Amfortis prepress workflow solutions for commercial and packaging printers. The prepress software makes it easy to schedule plate production. Fast plate remakes are just a click away.

Job	Create Date	Modified Date	Flows	Order Number	Mode
Job 0001	2024-07-09, 17:04	Today, 10:02		My order 0001	Gener
Job 0005	2024-07-09, 15:51	2024-07-09, 15:51		My order 0003	Gener
Job 0006	2024-07-09, 15:51	2024-07-09, 15:51		My order 0003	Gener
Job 0010	Today, 9:54	Today, 9:54		My Order 0010	
Merging Job	2024-07-10, 8:50	Today, 10:01		My order 0007	Gener

ECO3, your VLF expert

Boasting years of experience in very large format printing, ECO3 is the ideal partner to help you accomplish advanced process efficiency and automation, as well as cost control, in your prepress department.

ECO3 builds solutions around ECOlogy, ECONomy and Extra Convenience. 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. All while guaranteeing superior and consistent print quality. The result? More value for your entire business!



Avalon C16 specifications

MODELS	C16-90 E	C16-90 S	C16-90 XT
Laser type	830 nm fiber coupled thermal laser diodes		
Laser channels	64	96	128
Recording system	External drum		
Press punch	Optional, up to 3 sets		
Resolution	2,400 dpi		
PLATE LOADING & UNLOADING CONFIGURATION			
Manual loading	Yes		
Automatic loading (autoloader)	Yes (see table below for ALS loading)		
Pallet loader	Yes		
Manual unloading	Yes		
In line unloading	Yes		
Robotic loading	Yes		
THROUGHPUT			
1,524 × 1,200 mm (60 × 47.24") plates @ 2,400 dpi	17 plates per hour	24 plates per hour	29 plates per hour
PLATE CHARACTERISTICS			
Max. plate size ¹	1,524 × 1,200 mm (60 × 47.24")		
Min. plate size ¹	450 × 370 mm (17.72 × 14.57")		
Thickness	0.15 to 0.4 mm (6 - 16 mil)		
Max. exposure size ²	1,524 × 1,185 mm (60 × 46.65")		
ENVIRONMENT (CTP AND AUTOLOADER)			
Temperature range	Recommended: 18-26 °C		
Humidity range	40-60 % RH (non-condensing)		
Power	3- phase AC 380 V±5% 50/60 Hz		
Air filter	Included		

¹ Along drum x around drum

² Head and tail clamp grip: 7 mm

ENGINES WITH AUTOLOADER	C16-90 E ALS	C16-90 S ALS
Plate capacity	100 plates (0.3 mm)	
Number of cassettes	1	
Throughput for 1,524 × 1,200 mm (60 × 47.24") plates @ 2400 dpi	17 plates per hour	24 plates per hour
Net weight	Engine: 1,560 kg - ALS loader: 300 kg - Filter housing: 100 kg	
Dimension (L × W × H)	2,280 × 3,070 × 1,200 mm (89.76 × 120.87 × 47.24") (3,070 mm = 1,280 mm loading unit + 1,180 mm engine + 610 mm output table)	

AUTOLOADERS	C16/24-90 Expert Loader 150 XL	C16/24-90 Expert Loader 165 XL
Plate capacity	1 pallet	
Extension module	Optional, 1 additional pallet	
Cassettes	Up to 2 cassettes (100 plates per cassette of 0.3 gauge)	
Max. plate size	Pallet: 1,276 × 1,524 mm (50.23 × 60") Cassette 1: 1,325 × 1,380 mm Cassette 2: 1,276 × 1,524 mm	Pallet: 1,325 × 1,650 mm (52.16 × 64.96") Cassette 1: 1,325 × 1,380 mm Cassette 2: 1,325 × 1,650 mm
Min. plate size	660 × 745 mm (25.95 × 29.33") (Optional cassette: 400 × 500 mm)	
Weight	Basic module: 600 kg - Segment: 290 kg - Extension module: 320 kg	
Dimension (L x W x H) without exten	3,709 × 2,350 × 1,550 mm (146 × 92.52 × 61")	

ROBOTIC PLATE LOADER	This system is tailor-built to your needs; please contact your ECO3 team or dealer for guidance.
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Avalon C24 specifications

MODELS	C24-90 E	C24-90 S	C24-90 XT
Laser type	830 nm fiber coupled thermal laser diodes		
Laser channels	64	96	128
Recording system	External drum		
Press punch	Optional, up to 3 sets		
Resolutions	2,400 dpi		
PLATE LOADING & UNLOADING CONFIGURATION			
Manual loading	Yes		
Automatic loading (autoloader)	Yes (see table below for ALS loading)		
Pallet loader	Yes		
Manual unloading	Yes		
In line unloading	Yes		
Robotic loading	Yes		
THROUGHPUT			
1,850 × 1,422 mm (70.86 × 55.98") plates @ 2400 dpi	14 plates per hour	19 plates per hour	23 plates per hour
PLATE CHARACTERISTICS			
Max. plate size ^{1,2}	1,850 × 1,422 mm (72.83 × 56")		
Min. plate size ¹	650 × 550 mm (25.6 × 21.65")		
Thickness	0.15 to 0.40 mm (6 to 16 mil)		
Max. exposure size ³	1,850 × 1,407 mm (72.83 × 55.4")		
ENVIRONMENT (CTP AND AUTOLOADER)			
Temperature range	Recommended: 18-26 °C		
Humidity range	40-60 % RH (non-condensing)		
Power	3- phase AC 380 V ±5% 50/60 Hz		
Air filter	Included		

¹ Along drum x around drum

² A format extension to 1,860 mm is available

³ Head and tail clamp grip: 7 mm

ENGINE WITH AUTOLOADER	C24-90 XT ALS
Plate capacity	100 plates (0.3 mm)
Number of cassettes	1
Net weight	Engine: 2,480 kg - Air pump box: 190 kg - Loading table: 375 kg
Dimension (L x W x H)	2,700 × 3,980 × 980 mm (106,3 × 152,16 × 38,58") (3,980 mm = 1,480 mm loading table + 1,440 mm engine + 1,060 mm output table)

EXPERT LOADER

Check out the table on the previous page

ROBOTIC PLATE LOADER

This system is tailor-built to your needs; please contact your ECO3 team or dealer for guidance.



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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.