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Avalon N16

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Avalon N16-50

Overview

The N16 series is the smallest line in the Avalon N VLF (Very Large Format) range. It is the perfect fit for your mid-sized VLF plates. Choose from four different models that produce up to 16 (N16-50), 24 (N16-50 S), 30 (N16-50 XT) and 42 plates (N16-80 XT) per hour.

All N16 platesetters use a 16-up external drum engine which is equipped with Grating Light Valve (GLV) imaging technology and integrated automation – offering you a customized CtP solution that always responds to your needs.

Related Information

Related Products

Avalon B8-24 S/XT
Avalon N24 / N36 / N40 / N48
Avalon N4
Avalon N8
Download

Avalon N16 Datasheet
Avalon N16 Datenblatt

Key Benefits

- Reliable platesetting
- Advanced external drum design
- High-quality CtP imaging
- Exceptional registration accuracy
- Fully automated configuration

Features

Internal Punching

The Avalon N16 internal punching system punches for both the drum and the on-press registration immediately before mounting the plate on the drum. Internal punching improves register on press and reduces make ready times. Because the punching is done while another plate is being imaged, there is no loss of plate throughput.

By adding optional press punch blocks, imaged plates can be loaded straight onto presses with different punching, eliminating further manual steps and dramatically increasing make ready efficiency.

Extended Maximum Plate Size

The Avalon N16-80 XT maximum plate size has been increased to 1470 x 1180 mm, ensuring compatibility with almost all 16 A4-size page thermal CtP systems.

Perfect Upgradability

The Avalon N16 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 replacing certain key parts on the job.

Technical Specs

Avalon	N16-50 E/S/XT
Imaging technology	512 beams Grating Light Valve (GLV) technology
Laser type	830 nm thermal laser diodes
Recording system	External drum
Resolution	1200-2400-2540 dpi
Plate characteristics	
Maximum (lead edge x wrap)	1470 x 1165 mm (57.8” x 45.8”)
Minimum (lead edge x wrap)	650 x 550 mm (450 x 370 mm with small plate option) 25.6” x 21.7” (17.7” x 14.5” with small plate option)
Plate thickness	0.2 to 0.4 mm (8 to 16 mil)
Maximum imaging size	N16-50 E: 1470 x 1157 mm grip 3/5 mm N16-50 S: 1470 x 1154 mm grip 6/5 mm N16-50 XT: 1470 x 1154 mm grip 6/5 mm
Plate compatibility	
Approved Agfa Graphics plates	Azura TS, Azura TU, Amigo TS Thermostar P970, Energy Elite, Energy Elite Pro
Plate loading and unloading configurations	
Manual loading	Yes

Internal punching	N16-50 E : optional N16-50 S : standard N16-50 XT: standard
Automatic loading	Yes
Single cassette autoloader	Yes
Multi cassette autoloader	Yes (3-6 cassettes)
Manual unloading	Yes
On-line processor (OLP)	Yes
Throughput	
Energy Elite Pro 1448 x 1143 x 0.4 mm plate, 2400 dpi	N16-50 E: 16 pph N16-50 S: 24 pph N16-50 XT: 30 pph Throughput affected by plate sensitivity, screening and other factors.
Weight & dimensions	
Dimensions (w x d x h) Including built-in bridge	2740 mm x 1775 mm x 1515 mm (107.8” x 69.8” x 59.6”)
Approx. weight Including the blower	1640 kg (3608 lb)
Environment	

Temperature range - Recommended - Required	 21° C to 25° C (70°F to 77°F) 18° C to 26° C (64°F to 79°F)
Humidity range	40% to 70% RH (non-condensing)
Power	1Ï• 200-240 V 25 A 50 or 60 Hz

Avalon	**N16-80 XT**
Imaging technology	1024 beams Grating Light Valve (GLV) technology
Laser type	830 nm thermal laser diodes
Recording system	External drum
Resolution	1200-2400-2540 dpi
Plate characteristics	
Maximum (lead edge x wrap)	1470 x 1180 mm (57.8” x 46.4”)
Minimum (lead edge x wrap)	650 x 550 mm (450 x 370 mm with small plate option) 25.6” x 21.7” (17.7” x 14.5” with small plate option)
Plate thickness	0.2 to 0.4 mm (8 to 16 mil)
Maximum imaging size	N16-80 XT: 1470 x 1169 mm grip 6/5 mm

Plate compatibility	
Approved Agfa Graphics plates	Azura TS, Azura TU, Amigo TS Thermostar P970, Energy Elite, Energy Elite Pro
Plate loading and unloading configurations	
Manual loading	Yes
Internal punching	N16-80 XT: standard
Automatic loading	Yes
Single cassette autoloader	Yes
Multi cassette autoloader	Yes (3-6 cassettes)
Manual unloading	Yes
On-line processor (OLP)	Yes
Throughput	
Energy Elite Pro 1448 x 1143 x 0.4 mm plate, 2400 dpi	N16-80 XT: 42 pph
Weight & dimensions	
Dimensions (w x d x h) Including built-in bridge	2740 mm x 1775 mm x 1515 mm (107.8” x 69.8” x 59.6”)
Approx. weight Including the blower	1640 kg (3608 lb)
Environment	

Temperature range - Recommended - Required	 21° C to 25° C (70°F to 77°F) 18° C to 26° C (64°F to 79°F)
Humidity range	40% to 70% RH (non-condensing)
Power	1Ï• 200-240 V 25 A 50 or 60 Hz

Auto Loaders

N16-AL M Triple Multi-cassette auto-loader	
Applicability	Avalon N16-50 E/S/XT Avalon N16-80 XT
Description	
Plates per cassette - Triple models	0.4 mm: 60 0.3 mm: 75 (The top cassette can only accommodate up to 0.3 mm plates)
Removable cassettes	No
Slip sheet removal	Included. Capacity: 100 sheets
Manual bypass	Yes
Plate sizes	
Maximum	1470 x 1180 mm (57.8” x 46.4”)
Minimum	650 x 550 mm (450 x 370 mm with small plate option) 25.6” x 21.7” (17.7” x 14.5” with small plate option)
Thicknesses	0.2 to 0.4 mm (8 to 16 mil)
Physical specifications	
Dimensions (w x d x h)	6290 x 3995 x 1680 mm

	(247.6” x 157.2” x 66.1”)
Weight (no plates)	1150 kg (2514 lb)
Environment	
Temperature range	21° to 25° C (69.8° to 77.0° F)
Humidity range	40% to 70% RH (non-condensing)
Power	Supplied by main unit
Options	
Location of loading unit	Right or left of engine
Location of cassette unit	Right or (and) left of loading unit
Upgrade three to six cassettes	Yes

Availability

North America

Available in this region

South America

Available in this region

Europe

Available in this region

Asia

Available in this region

Africa

Available in this region

Oceania

Available in this region