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Avalon 4-up series

The Avalon N4 thermal CtP system bring commercial and packaging printers the automation and imaging capabilities of larger devices in a compact format. It handles plates up to 830 x 660 mm, with a maximum throughput level up to 33 plates per hour.

Overview

Avalon N4 brings today's commercial and packaging printers the high-quality Whether you require the highly productive Avalon N4-30 XT, the Avalon N4-30 S, or the cost-effective Avalon N4-30 E, you always get a combination of exceptional imaging and rock-solid reliability. You can upgrade any time from the E model to the S model at any time.

The Avalon N4's streamlined operation and uncompromising image quality will allow you to handle the most demanding jobs, with more profit. Each model comes with an optional inline punching system and standard Ethernet connection, providing direct interfacing with the Apogee workflow. The N4-30 AL-S and N4-30 AL-M plate loaders offer maximum convenience and automation.

Key Benefits

- Proven multi-channel fiber-coupled technology provides reliable high-quality plate imaging
- High plate productivity up to 33 pph
- Process efficiency thanks to automation and workflow integration
- Accurate imaging thanks to plate edge detection, no registration punching required.
- Upgradable any time from the E model to the S model

Features

Multi-channel fiber-coupled thermal laser-diode technology

The imaging system provides precise dot reproduction on plate for high-quality print results. The E, S and XT models have respectively 16, 32 and 64 channels, resulting in a maximum plate output up to 33 pph (XT model). An upgrade from the E to the S model is possible.

Plate registration with edge detection system

The plate registration on the external drum is based on two fixed pins combined with optical plate edge detection. This assures consistent accurate imaging without the requirement of additional registration punching.

Process automation options

A single- or multi-cassette loader improves the plate loading efficiency considerably. Before loading the plate on the external drum, an inline press punch can be activated. After imaging the plates (conventional thermal plates or chemistry-free plates), they are guided into an online processor or into a clean-out unit.

Manual plate loading with standard pre-staging

The operator can load a plate while imaging another one and then leave the unit unattended. When the first plate leaves the external drum, the second one automatically enters the system. The operator does not need to intervene.

Small plate size option

This option allows a minimum plate size of 270 x 330 mm. For this purpose, two extra metal pins are added to enable registration with plate edge detection.

Technical Specs

Model	N4-30 E
Imaging technology	16-channel laser diodes
Laser type	830 nm thermal laser diodes
Recording system	External drum
Press punch	yes, max 6 units
Resolution	
1200 dpi	yes
2400 dpi	yes
2438 dpi	yes
2540 dpi	yes
Throughput	
Throughput pph (745 mm x 605 mm, 2400 dpi)	11
Plate loading & unloading configuration	
Manual loading	yes
Semi-manual loading	yes

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Automatic (autoloader)	yes
Pallet loader	n/a
Manual unloading	yes
In line unloading	yes
Plate characteristics	
Min. plate size (along drum x around drum)	324 mm x 330 mm (12.8″ x 13.0″) 270 x 278 mm (10.7 x 10.9″) optional 324 x 278 mm (12.8 x 10.9″) optional
Max. plate size (along drum x around drum)	830 mm x 660 mm (32.7″ x 26″)
Thickness	0.15 mm-0.3 mm (6-12 mil)
Max. exposure size (around drum x along drum)	830 mm x 636 mm (32.7″ x 25″)

Model	N4-30 S
Imaging technology	32-channel laser diodes
Laser type	830 nm thermal laser diodes
Recording system	External drum
Press punch	yes, max 6 units
Resolution	
1200 dpi	yes
2400 dpi	yes
2438 dpi	yes
2540 dpi	yes
Throughput	
Throughput pph (745 mm x 605 mm, 2400 dpi)	21
Plate loading & unloading configuration	
Manual loading	yes
Semi-manual loading	yes
Automatic (autoloader)	yes

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Pallet loader	n/a
Manual unloading	yes
In line unloading	yes
Plate characteristics	
Min. plate size (along drum x around drum)	324 mm x 330 mm (12.8″ x 13.0″) 270 x 278 mm (10.7 x 10.9″) optional 324 x 278 mm (12.8 x 10.9′′) optional
Max. plate size (along drum x around drum)	830 mm x 660 mm (32.7″ x 26″)
Thickness	0.15 mm-0.3 mm (6-12 mil)
Max. exposure size (around drum x along drum)	830 mm x 636 mm (32.7″ x 25″)

Model	N4-30 XT
Imaging technology	64-channel laser diodes
Laser type	830 nm thermal laser diodes
Recording system	External drum
Press punch	yes, max 6 units
Resolution	
1200 dpi	yes
2400 dpi	yes
2438 dpi	yes
2540 dpi	yes
Throughput	
Throughput pph (745 mm x 605 mm, 2400 dpi)	33
Plate loading & unloading configuration	
Manual loading	yes
Semi-manual loading	yes
Automatic (autoloader)	yes
Pallet loader	n/a

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Manual unloading	yes
In line unloading	yes
Plate characteristics	
Min. plate size (along drum x around drum)	324 mm x 330 mm (12.8″ x 13.0″) 270 x 278 mm (10.7 x 10.9″) optional 324 x 278 mm (12.8 x 10.9′′) optional
Max. plate size (along drum x around drum)	830 mm x 660 mm (32.7″ x 26″)
Thickness	0.15 mm-0.3 mm (6-12 mil)
Max. exposure size (around drum x along drum)	830 mm x 636 mm (32.7″ x 25″)

Autoloaders	N4-30 AL-S
Plate capacity	100
Number of cassettes	1
Min./max. plate size	324 mm x 370 mm (12.8″ x 14.5″) / 830 mm x 660 mm (32.7″ x 26″)

Autoloaders	N4-30 AL-M
Plate capacity	300
Number of cassettes	3
Min./max. plate size	324 mm x 370 mm (12.8″ x 14.5″) / 830 mm x 660 mm (32.7″ x 26″)

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