

# Advantage N

**A Greater Advantage.  
More Productive.  
More Reliable. More Affordable.**

Characteristic	:Advantage N-SA (Semi-Automatic)	:Advantage N-SL (Stack Loader)	:Advantage N-DL (Direct Load)	:Advantage N-TR (Trolley Load)	:Advantage N-PL (Pallet Load)
Max. plate size	1143 x 710 mm / 45 x 27.95 inch		914 x 710 mm / 35.98" x 27.95" (DL/TR Standard) 1250 x 710 mm / 49.21" x 27.95" (DL/TR Extended)	914 x 710 mm / 35.98" x 27.95" (DL/TR Standard) 1250 x 710 mm / 49.21" x 27.95" (DL/TR Extended)	1090 x 710 mm / 42.91" x 27.95"
Min. plate size	1090 x 710 mm / 42.91" x 27.95"				
Plate thickness	0.20 - 0.40 mm / 8 - 16 mil				
Resolution	900 – 2540 dpi				
On-line plate capacity	N/A	100	1250	1250	6000
Plate types supported	Photopolymer (Conventional and Chemfree) or silver halide				Photopolymer (Conventional and Chemfree)
Plate formats supported	Up to 100				
Plate formats supported on-line	N/A	1	1 + 2 optional	1 + 2 optional	1 + 1 optional
Automatic slip sheet removal	N/A	Yes			
Plates/hour	75 operator dependable	100 depending on resolution and plate size	up to 300 depending on resolution and plate size	up to 350 depending on resolution and plate size	up to 350 depending on resolution and plate size
On-line processor	Yes				
Safelight for plate loading	Yellow / TR trolley can be transported to the yellow light room				
Operating safelight	Yellow	Yellow (Daylight with optional daylight cover)	Daylight		
Upgrade options					
Display on pivoting arm	Factory option + Field upgradable				
Mirrored registration	Factory option + Field upgradable				
Daylight cover		Factory option + Field upgradable			
Infra Red Camera	Factory option + Field upgradable				
Vantage	Factory option + Field upgradable	Factory build in			
Productivity upgrades			+50 / +120 / +200	+50 / +120 / +200 :Advantage N-TR HS is by default 350 pph	+50
Additional trolleys				Yes	
Power supply	10A 230V (50/60 Hz)				
Air supply	5,5 - 6,8 bar				
Operating conditions	Operating temperature: 18 - 23°C (64,4 - 73,4°F) 40% - 60% Outside of this range may affect performance				
Footprint dimensions (Standard)					
Width:	1165 mm (45,87")	1165 mm (45,87")	1245 mm (49,02")	1245 mm (49,02")	1245 mm (49,02")
Length:	2392 mm (94,17")	2392 mm (94,17")	3536 mm (139,23")	3536 mm (139,23")	4992 mm (196,54")
Height:	1475 mm (58,07")	1475 mm (58,07")	1700 mm (66,93")	1700 mm (66,93")	1700 mm (66,93")
Footprint dimensions (Extended)	N/A		1245 mm (49,02")	1245 mm (49,02")	N/A
Width:	N/A		1245 mm (49,02")	1245 mm (49,02")	N/A
Length:	N/A		3950 mm (155,51")	3950 mm (155,51")	N/A
Height:	N/A		1700 mm (66,93")	1700 mm (66,93")	N/A

We have taken the best features of our previous generation CtP systems—:Polaris and :Advantage—and added greater productivity, reliability and ease of use, and made it more affordable to give you an even greater advantage—:Advantage N. Combining high-quality standards with violet imaging technology, the :Advantage N addresses the needs of large, medium and small-volume printers with a choice of plate loading mechanisms and various plate throughput volumes. All :Advantage N units offer violet-laser imaging technology that can image both conventional and chemistry-free plates, giving you greater processing flexibility.

## An Advantage to Meet Every Need

:Advantage N is designed to meet the needs of every type of operation—from the smallest local newspaper printer to the most demanding high-volume printer. The :Advantage N family of CtP engines offers the widest range of throughput speeds matching every production requirement, and accommodating plate sizes from 275 x 451 mm (10.82" x 17.75") to 1250 x 710 mm (45" x 27.95").

## Key Benefits

- Violet-laser imaging provides fast and reliable platemaking, allowing you to meet tight deadlines. And, it offers the lowest cost of ownership.
- Short production cycles let you extend editorial and advertising deadlines. So you will be able to deliver the latest news and last-minute offers to your daily readers.
- Automation yields consistent quality with fewer remakes and less wasted material.
- Simple design and fewer moving parts result in minimal maintenance requirements and less downtime.



## FEATURES

### Perfect Plate Transport and Handling

The combination of the :Advantage N patented FlexWheel© and FlexPin© guarantee a perfect, fully automatic and format-independent 3-point registration. After registration, the high precision drive system accurately transports the plates. And thanks to the integrated air bed, it transports them smoothly under the exposure head to avoid scratching. For added convenience and carefree operation, air cushions at both sides of the exposure head neutralize any possible external vibrations. So the :Advantage N can be installed close to the printing press with no risk of compromising image quality. A patented Slip Sheet Removal System removes the interleave paper and drops it into a paper bin.

### Built-In Fail-Safe Systems

The highly intelligent :Advantage N automatically checks the plate level and immediately informs the operator when the engine is about to run out of plates. It also searches for damaged plates and forgotten card board and dumps them into an integrated dump area to avoid any possible damage to the online processor. Agfa Graphics' patented :Arkitex PowerWedge© replaces the analog calibration procedure with a simple digital one, eliminating the need to manually check the correct exposure level.

### Higher Quality and Greater Stability

The :Advantage N has a new exposure head that has a very compact, extremely solid casting house to protect the optics and guarantee high stability. Widely accepted as the industry standard for newspaper plate production, the violet laser diode provides a lifetime of use combined with the lowest cost of ownership. A 670 nm reference laser beam in combination with a grating scale bar continually checks the laser position ensuring absolute exposure linearity. Pulse Width Modulation and Amplitude Modulation adjust the laser settings to image even the finest details and the most demanding fonts (e.g. Kanji), and ensure perfectly even tints across the entire image. Every :Advantage N engine offers resolutions from 900 – 2450 dpi and both ABS and Sublima screening. In combination with the zoomable spot size, this delivers photo-like print quality for all newspaper applications. So there is no need to invest in additional quality upgrades.

### Absolute Integration and Ease of Use

Using a Gigabit Ethernet connection, the :Advantage N engines integrate into any business network environment as easily as a simple printer. The :Advantage N browser-based User Interface (UI) can reside on any computer in the network and/or on the optional engine display (via VSN connection). Using the password protected UI the operator can access the engine, media settings and control production. The service engineer can download upgrades and perform service remotely. All I/O and motor controls are connected through the newest CAN Bus technology. An EXT industrial single board controller centralizes all controls on a single PC board allowing fast connection between the different modules, easy diagnostics, fewer spare parts, less cabling and higher reliability.



### Unprecedented Advantage: Full Autonomy up to 6,000 plates

The new :Advantage N-PL engine sets new standards for newspaper production. With the ability to image up to 6,000 plates continuously at a throughput speed up to 350 pph (\*), Agfa gives newspaper printers a new level of automation and productivity. For printers who need to have more than one plate format online, the :Advantage N-PL engine offers an optional cassette to store 200 additional plates – panoramic or single. If two formats are not enough, the :Advantage N TR HS offers up to three plate formats online with the same remarkable speed of 350 pph (\*). The :Advantage N-PL can be loaded from three sides offering maximum flexibility and use of available space. Agfa Graphics' patented plate pre-separation and pre-registration features guarantee seamless plate loading and trouble-free operation at the highest possible production speeds. Another advantage of the N PL HS is the positive ecological impact of pallet loading. It dramatically reduces packaging ensuring a durable and ecological production process.

(\*): Depending on resolution and plate size

Engine Type	Throughput speed in pph (depending on resolution and plate size)
:Advantage N-SA	Up to 75
:Advantage N-SL	100
:Advantage N-DL/TR	100
:Advantage N-DL/TR S	150
:Advantage N-DL/TR XT	220
:Advantage N-DL/TR XXT	300
:Advantage N-TR HS	350
:Advantage N-PL XXT	300
:Advantage N-PL HS	350

High plate throughput means extended deadlines with the ability to produce more plates in the same or less time. Choosing a system with higher plate throughput eliminates the need for multiple systems saving floor space and money.



:Advantage N-PL