



:Advantage N

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



STAY AHEAD. WITH AGFA GRAPHICS.

Advantage N



An Advantage to Meet Every Need

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 speeds.

All Advantage N units offer violet-laser imaging technology that can image both conventional and chemistry-free plates, giving you greater processing flexibility.

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.
- Robust design and fewer moving parts result in minimal maintenance requirements and less downtime.

More Productive

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.



Advantage N-SA

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 the 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 1600 plates, up to 3 plate formats and speed up to 400 plates per hour.

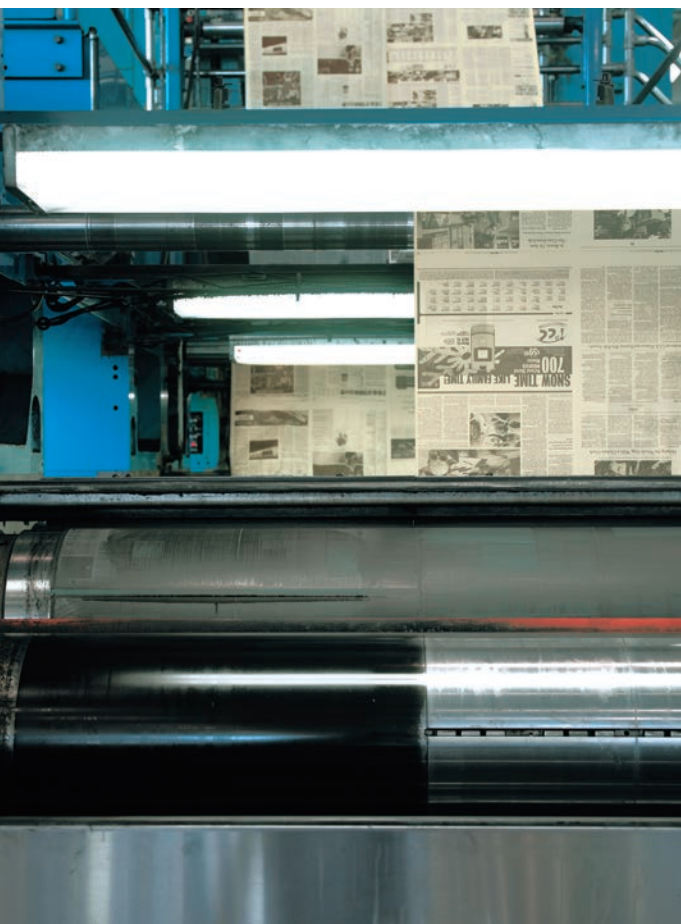
The Advantage N-DL and N-TR set new standards for newspaper production. With the ability to image up to 1600 plates continuously at a throughput speed of up to 400 pph, Agfa Graphics gives newspaper printers a complete new level of automation and productivity. The Advantage N-TR targets printers who use different plate formats and will benefit from the full flexibility with additional trolleys. High plate throughput allows to produce more plates in the same time or to meet your peak production in case of tight deadlines. Choosing a system with higher plate throughput eliminates the need for multiple systems saving floor space and money.



Advantage N-TR

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-TR VHS	400





More Reliable. More Affordable

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 CtP engine or 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.



Advantage N-DL has the ability to image up to 1500 plates continuously at a throughput speed of up to 300 pph, depending on resolution and plate size.



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.

Agfa's unique 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 by default resolutions from 900 – to 2450 dpi and can image both ABS and Sublima screening. In combination with the zoomable spot size, this delivers photo-like print quality for all newspaper or semi-commercial applications. So there is no need to invest in additional quality upgrades.





All Advantage N engines offer an identical output quality; the only differences are the production speeds and degree of automation.

Whether you use the Advantage N-SA (semi automatic) engine or the top end Advantage N-TR VHS (full-automatic - 400 pph) makes no difference on the output quality. Advantage N is built around a modular concept. This means amongst others that the imaging part is identical for all engines: same laser, optics and High-Precision Drive System. This allows to combine different Advantage N engine types (i.e. for backup reasons) while still being sure that your output quality is identical.

Infrared camera

An optional infrared camera can be mounted inside the engine's plate transport and imager part. This allows you to monitor what is happening inside the engine during production. It can also be used in combination with Agfa Graphics' TeamViewer for remote servicing.



Arkitex Enhance Vantage: intelligent Enterprise Health Monitoring

By default every Advantage N engine (except Advantage N-SA) is pre-configured to be connected to the Agfa Vantage Enterprise Health Monitoring software. Vantage is a simple '1-screen tool' to monitor your complete CTP system: Advantage N + processor/COU + punch and bender + software. Arkitex Enhance Vantage gives you an early indication of potential issues. This allows you to fix a problem before it becomes critical.

TeamViewer: Worldwide Remote Service and Support

TeamViewer automatically sends an alert notification to the Agfa service team without requiring your intervention. This allows rapid service response times and after-hours support capabilities. Via TeamViewer software updates can be uploaded timely and secure.

Complete Platemaking Solutions, All From One Single Supplier

Agfa is the only manufacturer that is capable to offer you a complete platemaking solution all out one hand: CtP, plates, processor, clean out unit, workflow and press room chemistry. By having the full R&D under 1 roof, Agfa's engineers can focus on a seamless integration and optimization of all the components of the production.



Characteristics	Advantage N-SA (Semi-Automatic)	Advantage N-SL (Stack Loader)	Advantage N-DL (Direct Load)	Advantage N-TR (Trolley Load)
Max. plate size	1143 x 710 mm (45 x 27.95")		914 x 710 mm (35.98 x 27.95") (DL/TR Standard) 1250 x 710 mm (49.21 x 27.95") inch(DL/TR Extended)	914 x 710 mm (35.98 x 27.95") (DL/TR Standard) 1250 x 710 mm (49.21 x 27.95") inch(DL/TR Extended)
Min. plate size	275 x 451 mm (10.82 x 17.75")			
Plate thickness	0.20 - 0.40 mm / 8 - 16 mil			
Resolution	900 – 2540 dpi			
On-line plate capacity	N/A	120	up to 1500	up to 1600
Plate types supported	Photopolymer (Conventional and chemistry-free) or silver halide (XXT is Photopolymer only)			
Plate formats supported	Up to 100			
Plate formats supported on-line	N/A	1 + manual bypass	1 + 2 optional	1 + 2 optional
Automatic slip sheet removal	N/A	Yes		
Plates/hour	75 (operator dependable)	100	up to 300 (*)	up to 400 (*)
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	N/A	Factory option + Field upgradable	N/A	N/A
Infrared Camera	Factory option + Field upgradable			
Arkitex Enhance Vantage	Factory option + Field upgradable	Factory built-in		
Productivity upgrades	N/A	N/A	+50 / +120 / +200	+50 / +120 / +200 Advantage N-TR HS is by default 350 pph, but upgradeable to 400 pph (Advantage N-TR VHS)
Additional trolleys	N/A	N/A	N/A	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: Length: Height:	1165 mm (45,87") 2392 mm (94,17") 1475 mm (58,07")		1245 mm (49,02") 3536 mm (139,23") 1700 mm (66,93")	
Footprint dimensions (Extended) Width: Length: Height:	N/A	N/A	1245 mm (49,02") 3950 mm (155,51") 1700 mm (66,93")	

(*) depending on resolution and plate size