



DG-VISION

Shape the future with web offset printing



DG press
service & innovation for you

www.dgpress.nl

The solution for a wide range of printing applications

DG-Vision is a short-make-ready web offset printing press that combines shaftless technology with near limitless inline options. This press can be used for a wide variety of products: security printing, pharmaceutical inserts, commercial print products, direct mail products, labels and various flexible packaging applications. Proven shaftless web press technology has been combined with innovations that minimise make-ready time. Any combination of modules is possible with the modular design, making it suitable for a wide variety of products.

Print quality

The image quality is very high for even the smallest details. Security features can be accurately printed due to high line screens for plate making. Rainbow printing is also possible with the offset towers. Additional print features can be easily added by combining modules like screen printing, flexographic, gravure, or inkjet units.

Print cost

Due to the low one-off costs for making the printing plate, the cost decrease when the order size increases.

Productivity

Offset printing is one of the fastest print techniques. DG-Vision can reach a speed of 400 m/min.

Versatility

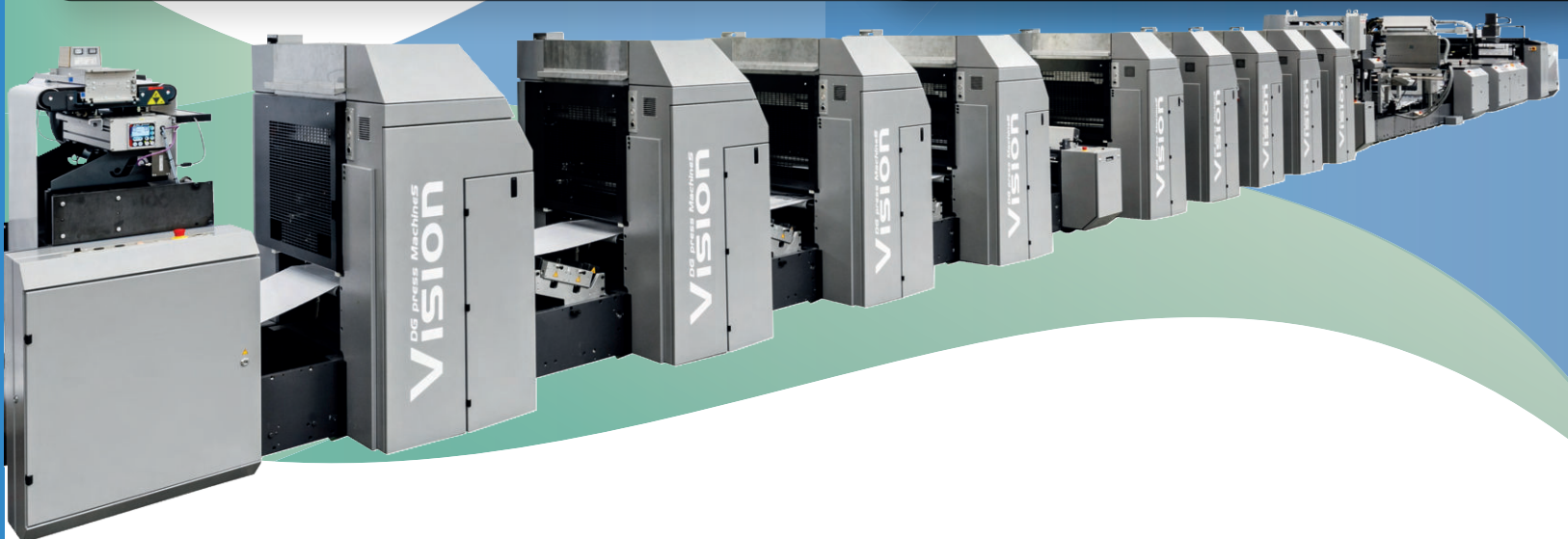
Wide variety of printing substrates. Offset printing can be used on a wide range of substrates. DG-Vision can print on paper, foil, and board.

Easy ink control

With offset printing the ink is easier to control. By turning the spanners, the operator can control the flow of the ink.

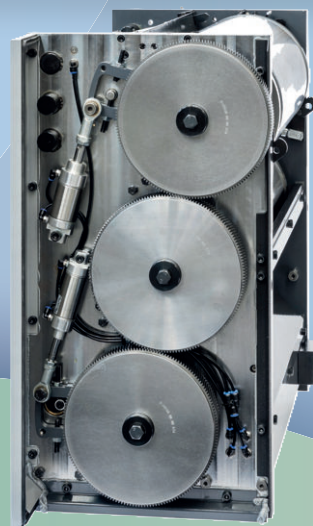
DG-Vision offers:

-  Print quality
-  Print cost
-  Productivity
-  Versatility
-  Easy ink control



Quick size change

The print towers are equipped with interchangeable three-cylinder size groups. As soon as the size group is put back in the print tower, it adjusts to the correct position automatically. The cylinders automatically adjust to their zero position. Four size groups can be changed in less than 10 minutes. To make this process quick and efficient, a special trolley with a rotating platform is delivered with the machine.



Key features:

-  Hybrid press
-  Servo drive
-  Quick size change
-  Automatic washing
-  Information management
-  Drying
-  Inkjet module

Servo drive

The latest computer-controlled direct drive of all units allows exceptionally precise web tension and print registration on a wide range of materials. Registration remains stable during speed changes. The press does not have conventional gear trains and gear boxes, which are subject to wear, and could cause print quality and registration variations.

Hybrid press

Machine configuration can be easily changed or expanded with additional modules for die cutting, punching, mechanical and digital numbering, sheeting, etc. The "plug and print" modularity includes options to add flexographic, gravure, letterpress, digital and rotary screen printing stations. Protection against obsolescence and market shifts is one of the built-in benefits of the DG-Vision press.

Automatic washing

The automatic washing system of the DG-Vision cleans all the ink rollers in the ink train including the ductor roller. The print towers can be washed separately or simultaneously.

Information management

The operation screen can be equipped with software for repeat orders. This software allows the printer to save relevant machine settings. When dealing with repeat orders, the operator can retrieve previous job settings quickly. This results in time savings up to 70%.

Drying

The DG-Vision can be equipped with different methods of drying; UV drying, hot air drying or IR drying. UV drying is often the most suitable solution for difficult print processes and temperature sensitive printing materials.

Inkjet module

Inkjet modules from different suppliers can be integrated to print images and variable data, like numbering and personal data, at high speed in both monochrome and full colour.



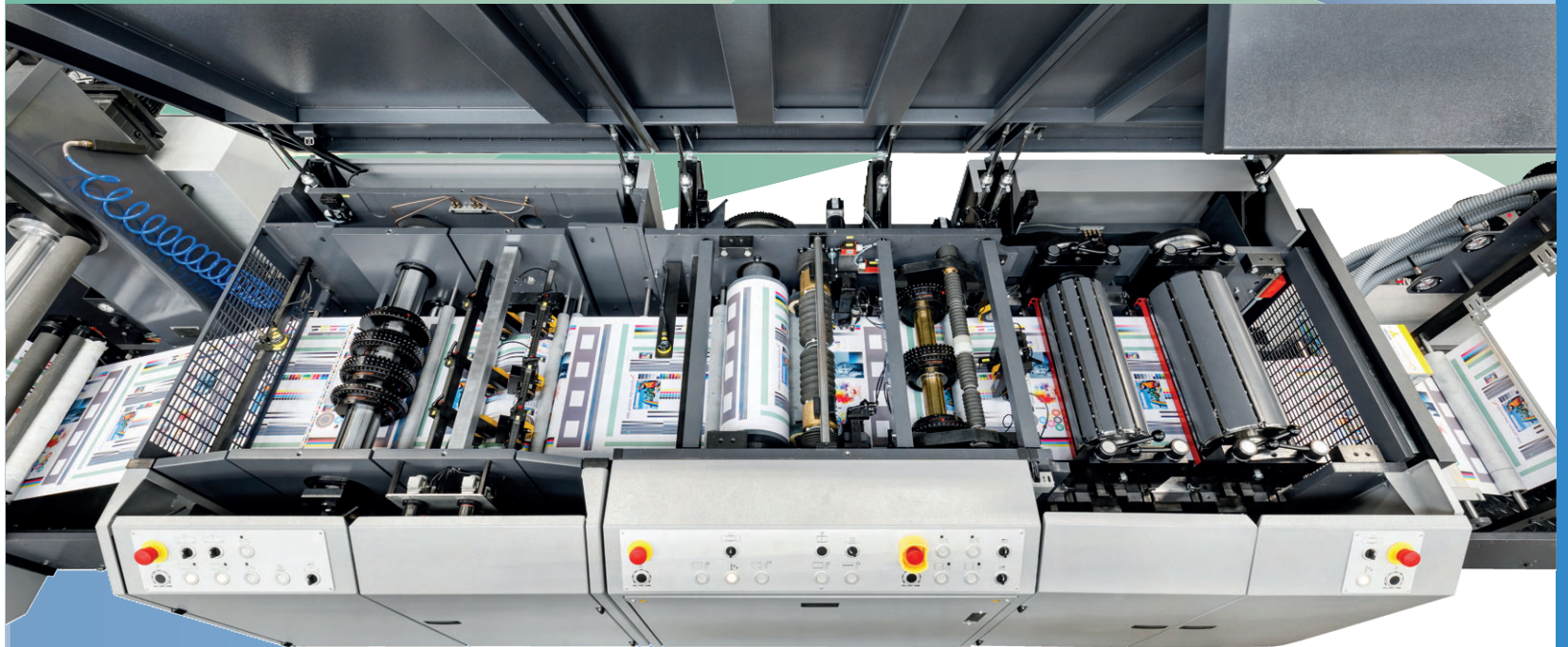
Applications

In order to include security elements in the print, web offset printing must be of the highest quality, coupled with other print technologies. DG-Vision is a hybrid printing press with a modular design that can be customised with special features to meet all requirements.

Pharmaceutical inserts require a high print quality and ability to handle light-stock paper qualities in combination with high production efficiency.

Packaging print. DG-Vision was designed for printing on paper. Recent developments like temperature controlled oscillator rollers and web tension control enable the DG-Vision to also print on other substrates such as foils, aluminium, cellophane, self-adhesive, nylon, poly and more.

Direct mail, commercial printing and business forms printing require high productive presses that outperform existing presses. DG-Vision is easy to handle, robust and offers the lowest cost-to-print in the market.



Options:

- Screen printing
- Rotogravure
- Hot and cold foil stamping
- Laminating
- Numbering
- Cooling units with UV curing
- Non-stop splicers
- Corona
- Digital printing
- Re-insertion
- Die-cutter
- Rewinder
- Sheeter
- Blanket washing system
- Remote ink control
- Register control
- Web video system
- UV curing system
- Flexo
- Hot-air dryer for water based or solvent based inks

Security printing

The DG-Vision is a popular press amongst security printing houses and governmental printers. This popularity comes from the modular system of the press and the wide variety of security printing modules which can be integrated in the machine. DG-Vision guarantees the best web offset printing quality, combine that with other printing techniques such as flexo, gravure, screen and inkjet to create a hybrid printing platform suitable for almost all security printing applications.

Besides the possibility to combine printing techniques, DG-Vision also offers plenty of other security print features. The press can be equipped with hot- or cold-foiling modules to apply holograms and other foils. Invisible ink can be used to print, and with a special web viewing system the ink can be monitored and printed in perfect register. Mechanical numbering, also called crash numbering, can be done inline by utilising one of the offset printing units.

For perforation (cross & length), edge-trimming and pin-feed holes the business processing section can be integrated in the press. This is especially useful when printing government documents with a sheeteer and stagger or zig-zag folder as output options. Inline die-cutting with waste removal is another feature which can be added to the line, mainly used to print on self-adhesive materials.

Security printing applications which are currently printed on the DG-Vision are tax stamps, authentication labels, visas, tickets, passports and more. Web offset is a proven printing technique in the security segment. Choose our DG-Vision press for the best solution.



Pharmaceutical printing

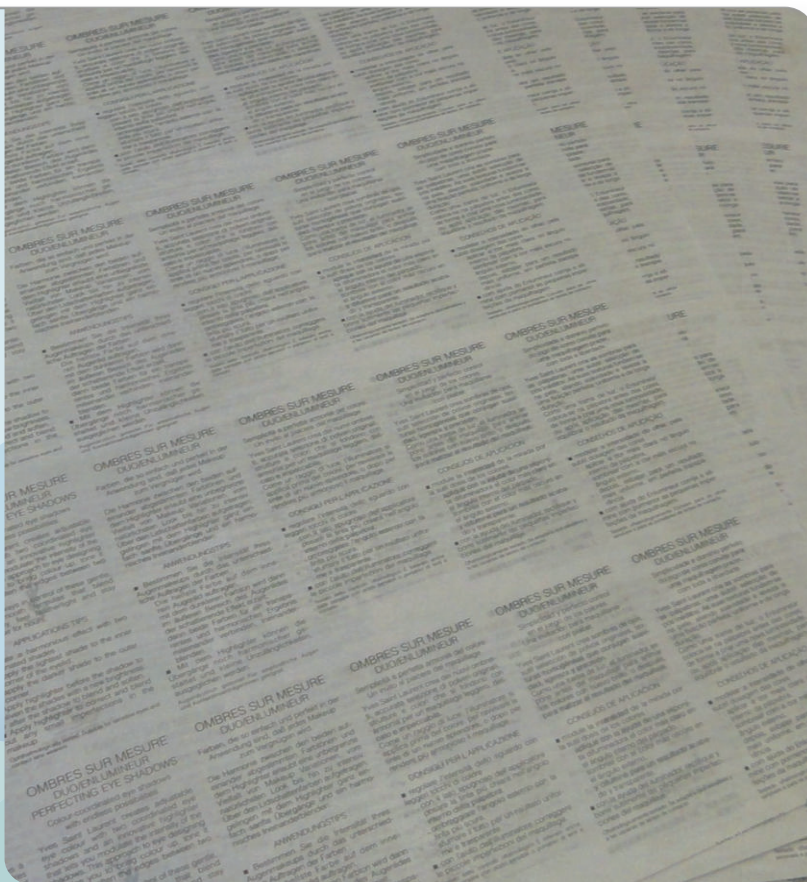
The DG-Vision press is highly suitable for the production of medical inserts/leaflets or prescriptions.

Normally these products are printed in key (black) color on both sides of the paper, which means only 1 or 2 offset printing units are required to print the text of the leaflets. The thickness of pharma paper normally varies between 35 – 60 gsm, and can be handled perfectly in the DG-Vision press.

The press is available in 520 mm web width, but can also be manufactured in 670 mm web width model. The additional width gives that extra productivity that is needed in some cases.

Equipping a DG-Vision press with a sheeter and automatic non-stop stacking module as output option, will create a compact and high volume reel-to-sheet machine.

Starting at an unwinder, reels of paper are printed by using the offset printing units. The web is turned over between the units by using a turner bar allowing for recto/verso print. The ink is cured by a (LED) UV system, the reel is then cut neatly into sheets and will be automatically stacked at the end of the press. A mechanical or digital numbering module can be added to the machine to personalise or add serial numbering to the leaflets.

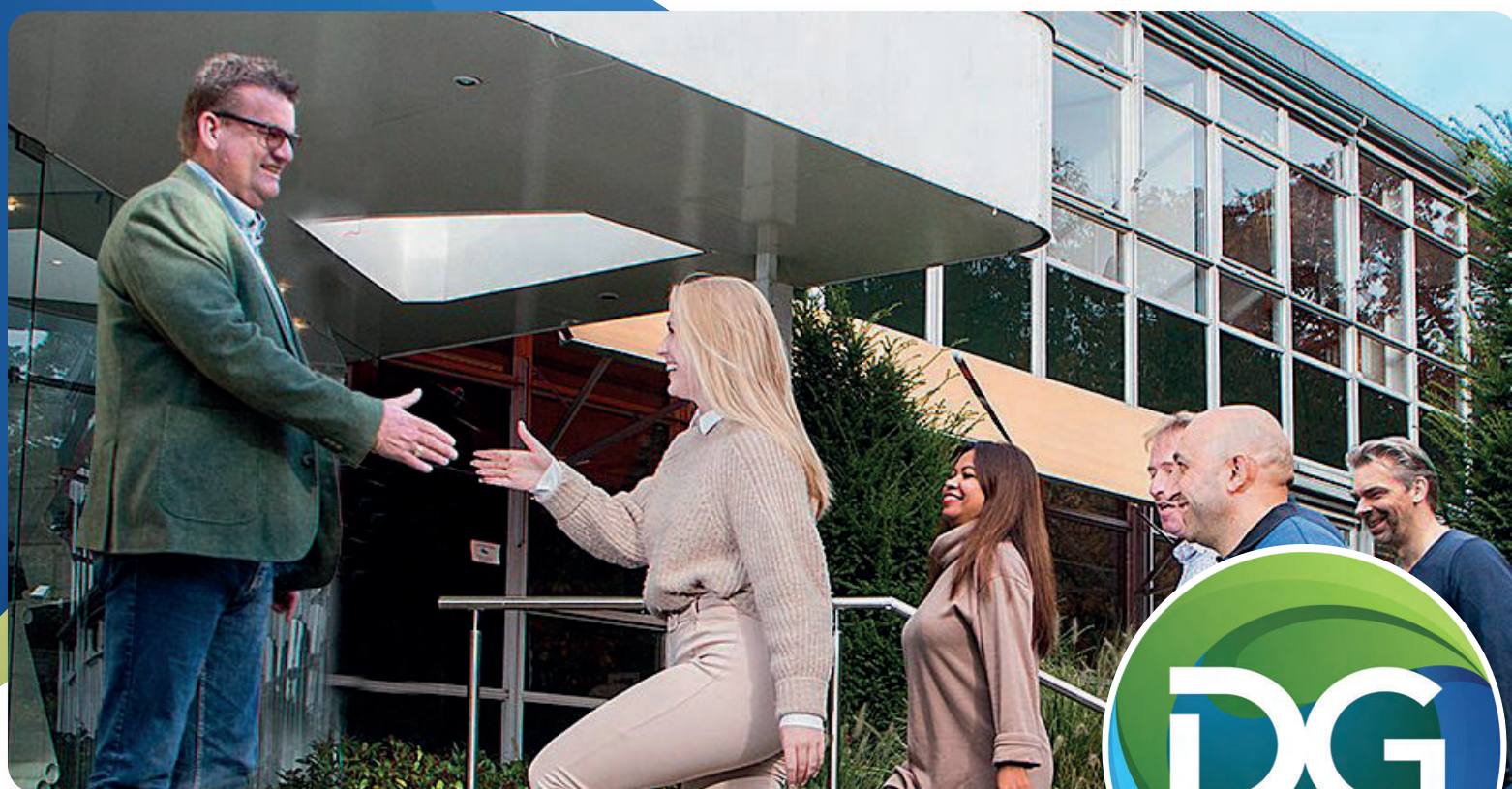


Specifications

Max. mechanical speed	400 m/min	1300 ft/min
Printing speed	The actual output depends on the type of job, the size and the quality of the processed material. Subject to technical modifications.	
Web width*	Max 520 mm	20 1/2"
Maximum print width	508 mm	20"
Repeat range	406,4 - 719,7 mm	16" - 28 1/3"
Variable in steps of	1/6" (mm sizes on request)	
Non printing zone	Clamping blanket 7,5 mm (optional 6,5mm)	Clamping blanket 0.30" (optional 0.26")
	Sticky blanket 4 mm	Sticky blanket 0.17"
Image carrier	Offset plate - wet or dry offset	
Max. unwind diameter**	1270 mm	50"
Max. rewind diameter**	1270 mm	50"
Max. roll weight	600 kg	1322.77 lbs
Material range	Foil:	12 - 200 µm
	Paper:	35 gr/m² - 240 gr/m²

*670 mm web width is also possible. Contact us for more information

**standard equipment



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