

DG press

IMPRESSIONS Twenty
w o r l d w i d e



Vision

The solution for a wide range
of printing applications

Service and Innovation for you

Vision - web offset printing

The 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, including commercial print products, direct mail products, labels, pharmaceutical inserts, security printing and various flexible packaging applications.

More than 70 years of experience in press manufacturing has led to an amazing product. Proven shaftless web press technology has been combined with innovations that minimize make-ready time. The result is the Vision, a press that offers today's printers competitive advantages in productivity, versatility and order turnaround time.

What is web offset printing?

Offset printing is a commonly used printing technique in which the inked image is transferred (or "offset") from a plate to a rubber blanket, then to the printing surface.

When used in combination with the lithographic process, which is based on the repulsion of oil and water, the offset technique employs a flat (planographic) image carrier on which the image to be printed obtains

The modular design makes virtually any combination of modules possible, making it suitable for a wide variety of products. A choice of tools makes inline finishing possible for this hybrid press.

The Vision was one of the first web offset presses in history and has been constantly adapted to all developments in web offset printing. The latest version of the Vision machine is full of modern technology and meets all print industry demands.

ink from ink rollers, while the non-printing area attracts a water-based film (called "fountain solution"), keeping the non-printing areas ink-free.

The modern "web" process feeds a reel of substrate through the press in several parts, typically for several metres, which then prints continuously as the substrate is fed through.



The top 5 advantages of offset printing

1. The image quality is very high

Offset presses use ink to guarantee a high quality of the image.

2. Lowest cost when printing large orders

When the quantity of the print job goes up, the costs per copy decrease. Due to the low one-off costs for making the printing plate, the costs fall when the order size increases.

3. Offset printing is one of the fastest print techniques

Offset presses can reach a speed of 400 m/min.

4. Wide variety of printing substrates

Offset printing can be used on a wide range of substrates. The Vision can print on paper, foil and board.

5. 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.



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 Vision press.

Automatic washing

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

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. You will find these and other specifications on the backside of this brochure.

Registration remains stable during speed changes.

The press does not have conventional gear trains and gear boxes, which are subject to wear, and can introduce print quality and registration variations.



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

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 will automatically set to the zero position. Four size groups can be changed in less than 10 minutes.

Inkjet module

Inkjet module from different suppliers can be integrated to print images and variable data, like numbering and personal data, at high speed in both color and black and white.



Advantages of the Vision press

- Superior offset print quality
- Short make-ready & change-over time
- User-friendly and ergonomic operation
- No tools required
- Can be used for a wide variety of products
- Possibility of many in-line processes
- Competitive advantages in productivity, versatility and order turnaround time
- Exceptionally precise web tension and print registration on a wide range of materials
- Automatic washing system
- Equipped with different methods of drying
- Machine has proven itself; the Vision is used for various purposes in many markets all over the world
- Modular in construction
- Can be adapted to any market



Additional units

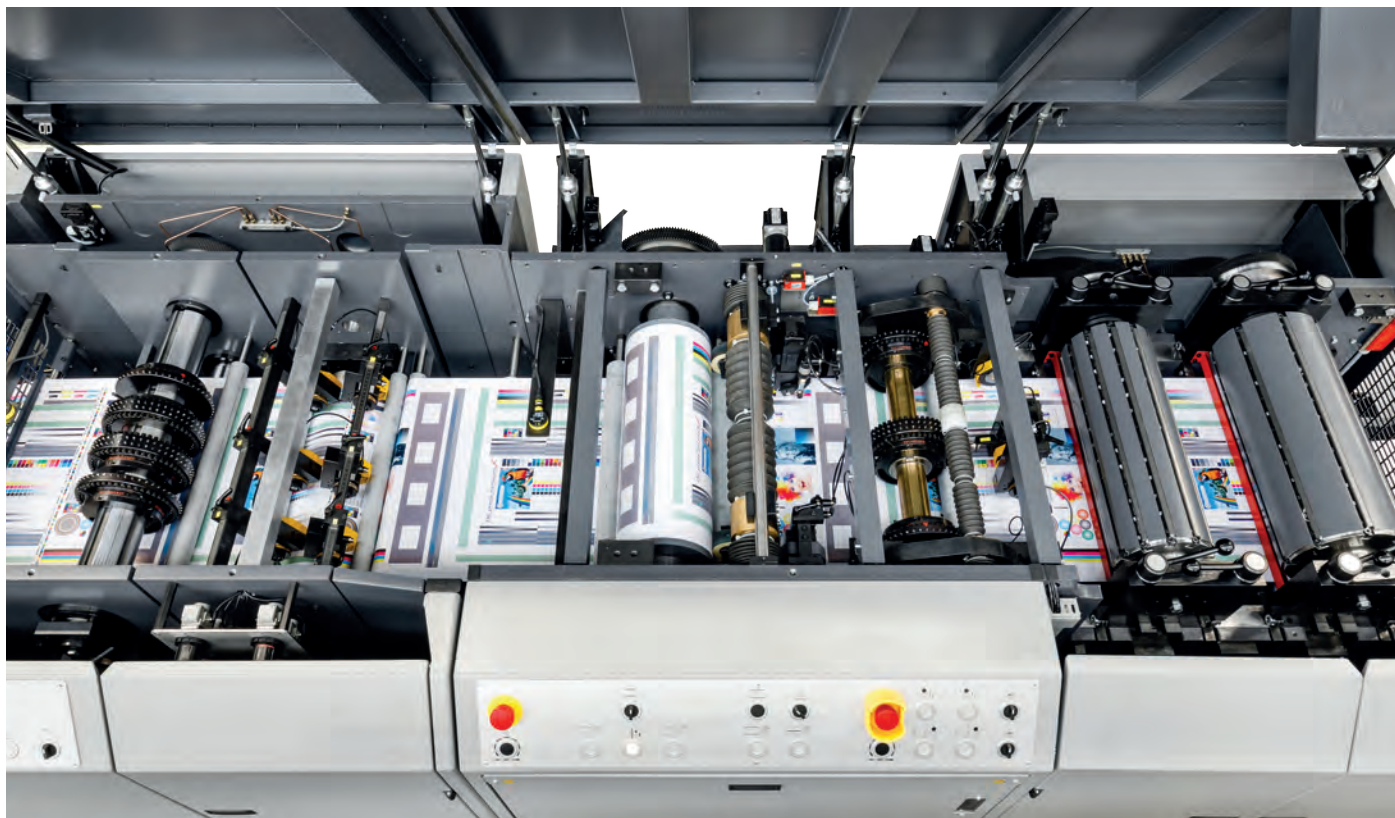
- Die-cutter
- Rewinder
- Re-insertion
- Sheeter
- Blanket washing system
- Remote ink control
- Register control
- Web video system
- UV curing system
- Flexo
- Hot air dryer for water based or solvent based inks
- Screen printing
- Rotogravure
- Hot and cold foil stamping
- Laminating
- Numbering
-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

Solutions for:

- Commercial printing
- Direct mail
- Wrap around and shrink labels
- Security printing
- Multi media booklets
- Lottery tickets
- Pharmaceutical inserts and boxes
- Business forms
 - continuous
 - unit sets cut sheet laser forms

Vision markets

- Direct mail & commercial printing
- Business forms
- Security printing
- Wrap around and shrink label printing



Machine specifications Vision

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

* 650mm is also possible. Please contact us for more information.

** Standard equipment

North American authorized agent:



11369 Higgins Airport Way
Burlington, WA 98233 (USA)
(360) 466-5577

Contact: Dave Gilmore, VP of Sales
dgilmore@impressionsworldwide.com
(619) 548-1409

www.impressionsworldwide.com
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