



VSOP^{MK II}

Variable Sleeve Offset Printing



Flexo unit Screen printing unit Variable data inkjet system



Machine specifications	VSOP 520	VSOP 850	VSOP 1250
Print direction	▶▶	▶▶	◀◀
Max print speed	400 m/min 1200 ft/min	400 m/min 1200 ft/min	400 m/min 1200 ft/min
Web width	200 - 520 mm 8 - 20.5"	425 - 850 mm 17 - 33.5"	600 - 1250 mm 24 - 49.2"
Max print width	500 mm 20"	840 mm 33"	1240 mm 48.8"
Range repeat lengths	508 - 762 mm 20 - 30"	508 - 762 mm 20 - 30"	570 - 1140 mm 22.4 - 44.9"
Repeat steps	stepless	stepless	stepless
Non printing zone			
Coated paper and film	3 mm 0.12"	3 mm 0.12"	4 mm 0.12"
Uncoated paper and board	6 mm 0.24"	6 mm 0.24"	6 mm 0.24"
Repeat change (per printing tower)	2 minutes	2 minutes	6 minutes
Print length correction	+/- 0,5% (depending on substrate and required print quality)		
Material range			
Standard	12 - 300 µm	12 - 300 µm	12 - 300 µm
Optional	200 - 700 µm	200 - 700 µm	200 - 700 µm

The above output figures are maximum values. The actual output is depending on the type of job, the size and the quality of the processed material. Subject to technical modifications.



flexible in printing!

The Solution for packaging printing

VSOP advantages

- ▶ Variable size, any repeat length
- ▶ Low size cost
- ▶ Low image cost
- ▶ Superior offset print quality
- ▶ High reactivity
- ▶ Short make ready and change over time
- ▶ High productivity
- ▶ High efficiency, even on short runs
- ▶ Many different in-line processes
- ▶ User-friendly and ergonomic operation, no tools required

Additional units

- ▶ Die-cutter
- ▶ Rewinder
- ▶ Sheeter
- ▶ Blanket washing system
- ▶ Remote ink control
- ▶ Register control
- ▶ Web video system
- ▶ UV curing system
- ▶ EB curing system
- ▶ Flexo unit
- ▶ Screen printing unit
- ▶ Rotogravure unit
- ▶ Hot foil stamping unit
- ▶ Laminating unit
- ▶ Variable data inkjet system
- ▶ Hot air dryer for water based or solvent based inks and varnish
- ▶ Non-stop splicers
- ▶ Corona unit
- ▶ And many more...



This sixpacer is printed on FSC-certified paper.

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Web offset printing for board, label and film packaging.

Variable Sleeve Offset Printing

Variable Sleeve Offset Printing is a new technology which allows you to work with variable sizes in offset. The sleeve technology lets you easily change sizes without having to completely change the unit. Not only is this easier and quicker, it is also a much cheaper way of printing different repeat lengths.

With this new technology, only two lightweight sleeves need to be changed when switching repeat lengths. The sleeve technology which has greatly contributed to the rise of flexo printing has now entered the world of offset.

Variable Sleeve Offset Printing units are fully equipped printing towers, which can be continuously set to any repeat length. This gives you, the printer, an extremely flexible printing press, suited for a nearly unlimited range of different

orders. You can completely change jobs in a few minutes.

Advantages of VSOP

Next to flexibility in repeat lengths and quick changing of jobs, the VSOP brings other huge advantages. The price of and delivery time on the image carriers is more economical than it is in flexo and rotogravure printing. Furthermore, the printing-quality of the VSOP units is comparable to rotogravure printing.

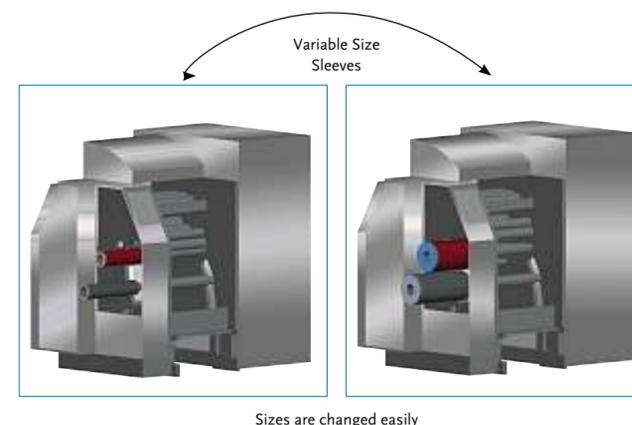


In addition, because of the low production costs and quick delivery times of the sleeves and offset plates, shorter runs are also profitable. Extremely quick job changes combine with perfect ergonomics, as the VSOP units use lightweight sleeves.

VSOP offers a total solution for various applications. With the development of a new UV- or EB-curing concept that produces extremely low odour, the machine is especially interesting for the top quality flexible packaging producers.

New markets

In today's market printers are continuously looking for new opportunities. Our revolutionary new technology can help create these opportunities! The different advantages bring the various printing segments closer to each other. Whether you are familiar with offset, flexo or rotogravure printing, you will quickly see the progress you can make with VSOP.



Sleeves

In the VSOP printing tower the plate cylinder and blanket cylinder are lightweight sleeves. These sleeves can manually be changed for sleeves with the same or another diameter within a very short time.

Servo drive

- ▶ Each printing cylinder has an individual servo drive. This means that no gears need to be changed and maximum register accuracy can be reached. As with other units in the press the sleeves have their own zero-point. This means that the press automatically puts the plate cylinder and blanket cylinder in register.
- ▶ The individual drive of each printing cylinder offers the possibility to vary the print length with a certain percentage without noticeable effect on the print quality.
- ▶ Another advantage of the individual servo drive is the possibility to increase the impression cylinder speed for each successive print station in order to print difficult substrates such as aluminum, thin film or even very thick substrates in register.

Offset plates

- ▶ Standard offset plates can be used. The offset plate combines high print quality with a very low cost.
- ▶ The unique plate mounting system combines accurate plate positioning and very quick plate change with a very small non printing zone.
- ▶ Normally plates with a thickness of 0,3 mm are used, but on request special plate sleeves for other plate thicknesses can be offered.

Job change

- ▶ Maximum press efficiency can be reached by preparing each print job off-press while the press is running. The quick change-over procedure and automatic presetting do the rest.
- ▶ Like any other function in the press the sleeves can be changed without the use of any tool.
- ▶ Of course, numerous press settings can be stored in the on-press database for a possible repeat job.

Hybrid press

- ▶ The VSOP offers an enormous functionality and wide field of operation together with ultimate user-friendly and ergonomic operation.
- ▶ In-line with the sleeve technology for offset a great number of other functions such as flexo print, screen print, gravure print, digital print, hotfoil stamping, laminating, die cutting and sheeting can be offered.

VSOP markets

- ▶ Label printing
Wet glue paper • Wrap around paper • Wrap around film • Self adhesive labels • In-mould labels • Shrink sleeves
- ▶ Flexible Packaging printing
Foil • Paper bags • Laminates • Food packaging
- ▶ Folding carton printing
Boxes • Liquid packaging
- ▶ Commercial printing
Business forms • Direct mail • Magazines, books • Pharmaceutical inserts • Security documents

