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DIGI-B
Digital edge-colouring

The DIGI-B is a digital colour cutting machine for industrial production. The printing of 4 sides is possible in a fully automatic process. The pre-stacking of the products takes place during the printing process on a separate device. The complete stack is loaded in insert/delivery station in the clamping device.

The basic machine can handle formats from 50 x 50 mm to 360 x 360 mm. Optional possible up to maximum 720 x 720 mm.
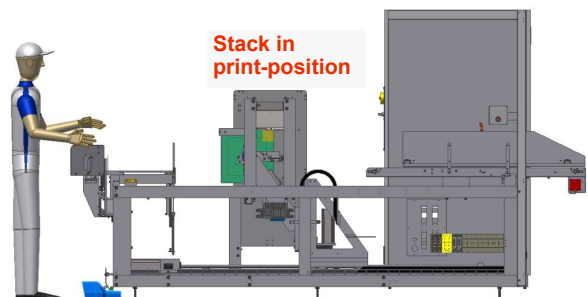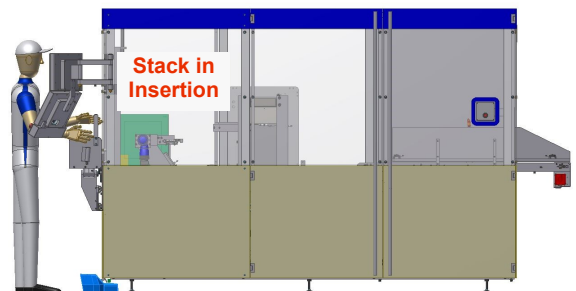
The printing process takes place in a single-pass process and enables high performances. By format-specific clamping plates fast format changes are possible. The low unit costs are a result of an optimal use of the printhead width, low portion of costs by consumables as well as low maintenance costs and efficient production.

OPERATING PROCESS
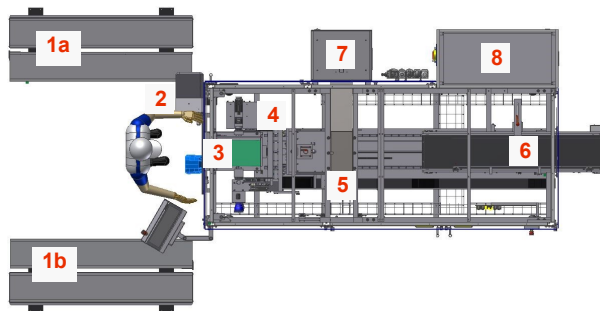
1   Roller conveyor for product piles
2   Pre-stacking device
3   Insert and delivery station with protective shutter
4   Transport system for pinched stack
5   Printing head
6   Optional: automatic delivery
7   Printing controller & Ink processing
8   Electrical cabinet

Stack in Insertion

Stack in print-position

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DIGI-B

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Products	book blocks
	brochures
	loose sheets
	books without overlapping cover

Formats

Basic machine	printing width until max. 210 mm
	min. 78 x 78 mm
	max. 360 x 360 mm
	(from 50 x 50 mm in two passes possible)

Optional format	MAXI max. 432 x 500 mm
	JUMBO max. 720 x 720 mm

Procedure	Inkjet digital print

Print engine	**s**ingle-pass print head „Memjet"
	with automatic print head cleaning
	CMYK colour tanks each 2'000 ml
	Ethernet 10/100/1000

Print resolution	high	1600 x 1600 dpi
	normal	1600 x 800 dpi
	drop size	1-2 picto litre

Print speed	9 m/min or 18 m/min

Print driver	32/64 bit Windows driver
	setting copy out of all common
	processable software

Print prepress	RIP Software

Operators	100 - 200% manpower

Output	Operating cycle per stack
	Load– and unload & printing ~ 40 - 60 sec
	Productivity in dependence of the operator
	and the products

	Example: 3-side printed	
	product thickness	10 mm
	no. products	17 pcs/stack
	cycle capacity	1'000 - 1'500 pcs/h

Change	Order change:	approx. 3 - 5 minutes
over time	Format change:	approx. 5 - 10 minutes
	MAXI format:	approx. 10 - 15 minutes
	JUMBO format:	approx. 20 - 40 minutes

Technical	
data	req. space ~ 3500 x 2000 x 2000 mm (LxBxH)
	weight approx. 900 kg
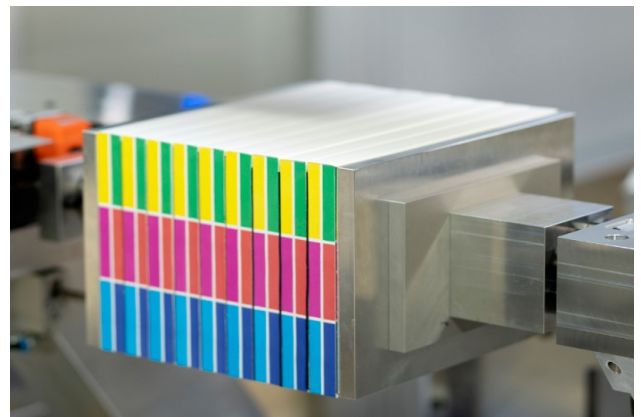
INTERESTING FEATURES

- Digital printing process
- High productivity
- Very low maintenance requirement
- Print unit with automatic cleaning station
- loose sheets with 4-sides printing (e.g. note cube)
- Short setup and change over time
- Very large format range
- Station with pre-stack assembling by insert station
- Processing of product stacks from pile to pile
- Optional automatic delivery unit
- Processing of book blocks and brochures
- Distance– and/or power controlled clamping
- Large program memory capacity
- Interface to pre-press and superior guide-systems (Industry 4.0)