

dmax

— 76 & 106 —

Digital spot and relief varnishing
for sheet substrates



For professional applications: up to sheet size B1 (42.5 × 30.5 in)

With high speed: up 10 000 sheets per hour; up to 100 meter / 328 feet per minute

With high quality: 600 dpi resolution, decreased pinholes even with thin layers

For maximum availability: industrial made, easy to operate, fast job-changes

For minimal operating costs: low varnish consumption, little maintenance

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Modular concept with many options



Basic system

Sheet conveyor system, sheet cleaning unit (calender)

Sheet detection even without print marks, register control and adjustment for each sheet

Digital inkjet varnishing unit with automatic cleaning system

UV-dryer, sample gate with inspection table

Operation via touch screen monitor, comprehensive image editor, remote service

Options

- Redundant inkjet-system for higher performance
- Integrated data RIP
- Fully variable data for different varnish layers on each sheet
- Pinhole-killer for improved varnishing results
- IR module for higher gloss
- Ionized air on feeder and stacker

Additional modules

- Inkjet-heads for standard-compliant Braille print
- Barcode-Printer for individual marking
- Digital foiling unit
- Corona
- Roller coater module for full flood and strip varnishing (with UV and water-based varnish)

High quality finishing for all kind of applications



Bookcover



Whisky package



Drink menu

dmax systems represent a milestone in the development of digital finishing by setting new benchmarks for quality, productivity, efficiency and versatility. With a performance of up to 10 000 sheets per hour dmax systems are the ideal complement for professional printers in all fields. This includes packaging and commercial printing as well as web2print and book printing. dmax systems are characterized by minimal setup times, high substrate flexibility and a fast job throughput. They maximize efficiency and allow for low production costs. Packages as well as brochures, personalized information material or even book covers can easily be refined with value adding varnish effects – whether the media have been printed on digital or offset printing machines.

Steinemann has more than 40 years of experience as a leading manufacturer of high-end finishing systems. Thus the industrial made of dmax systems stands for reliability, durability and low maintenance. dmax systems give printers a distinguishing feature and help winning new customers with innovative applications – they are the first choice for printers aiming at future-proofing their business.

dmax systems cover a striking range of services:

- Spot and relief varnishing
- Haptic and matt effects
- Finest structures
- Different varnish lay downs, also on one sheet
- Perfect gloss even with thin layers
- Individualized prints with fully variable data*
- Individual marking with barcode*
- Application of Braille with varnish*
- Digital foiling*

* with respective options and modules

Technical data basic systems

Substrate			SI units	US units
Sheet size (width × length)	«dmax 106»	max. min.	1 080 × 780 mm 290 × 320 mm	42.5 × 30.5 in 11.4 × 12.6 in
	«dmax 76»	max. min.	760 × 760 mm 290 × 310 mm	30 × 30 in 11.4 × 12.2 in
Sheet weight			100 – 600 g/m ²	67.6 – 405.4 lbs
Sheet thickness			0.08 – 0.8 mm	0.003 – 0.03 in
Sheet type			Paper, cardboard, plastic and laminated substrates	Paper, cardboard, plastic and laminated substrates
Pile height with EURO-pallett			1 080 (940 + 140) mm	42.5 (37 + 5.5) in
Pile weight	«dmax 106»	max.	1 600 kg	3 500 lbs
	«dmax 76»	max.	1 000 kg	2 200 lbs

Performance

Working speed			15 – 100 m/min.	50 – 328 fpm
Sheet performance minimal format (length)		max.	10 000 s/h	10 000 s/h
Sheet performance B1 format	only «dmax 106»	max.	7 000 s/h	7 000 s/h
Sheet performance B2 format		max.	8 500 s/h	8 500 s/h
Working speed with 6.8 lbs UV varnish (with redundant inkjet system optional)		max.	60 (100) m/min.	197 (328) fpm
Sheet performance B1 format with 6.8 lbs UV varnish (with red. inkjet system opt.)		max.	4 500 (7 000) s/h	4 500 (7 000) s/h
Working speed with 3.4 lbs UV varnish (with redundant inkjet system optional)		max.	85 (100) m/min.	279 (328) fpm
Sheet performance B1 format with 3.4 lbs UV varnish (with red. inkjet system opt.)		max.	6 500 (7 100) s/h	6 500 (7 100) s/h

Digital Inkjet Varnishing «Single Pass»

Inkjet system			UV – DoD – Inkjet – Single Pass	UV – DoD – Inkjet – Single Pass
Pront format (width × length)	«dmax 106»	max.	1 060 × 760 mm	41.5 × 29.9 in
	«dmax 76»	max.	750 × 750 mm	29.5 × 29.5 in
Resolution native			600 dpi	600 dpi
Varnish lay down (with redundant inkjet system optional)		variable	4 – 50 (4 – 100) g/m ²	2.7 – 33.8 (2.7 – 67.6) lbs
Register accuracy			+/- 0.2 mm	+/- 0.0078 in
Varnish type			special UV inkjet varnish	special UV inkjet varnish
Print data			PDF (standard), BMP, TIFF, ...	PDF (standard), BMP, TIFF, ...

Dimensions

Dimensions (length × height × width)	«dmax 106»		12 × 2.8 × 2.5 m	39.4 × 9.2 × 8.2 ft
	«dmax 76»		12 × 2.8 × 2.2 m	39.4 × 9.2 × 7.2 ft

The performance may vary with ambient conditions, humidity of the substrate, type of substrate used and working speed.
All technical data represent approximate values. Steinemann reserves the right to make mechanical and design modifications.

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