



KONICA MINOLTA

AccurioShine
3600

LUXURY AT YOUR FINGERTIPS

RETHINK 3D GLOSS & FOIL WITH
DIGITAL SPOT UV COATING



Giving Shape to Ideas

RETHINK THE POTENTIAL OF VARNISH

ADDED-VALUE FINISHING CAPABILITIES ARE A MUST FOR CUSTOMERS AND A BOOST FOR YOUR BUSINESS

In the printing industry, speed and cost are the two most important factors in the success of a business. Now, thanks to the AccurioShine 3600, you have a new weapon in your arsenal to meet the demanding needs of today's printing requirements and take care of the business end of your company. The AccurioShine 3600 is a standalone solution for adding 2D and 3D effects in gloss or foil at a reasonable cost without the complicated steps of conventional systems. Fully digital, featuring industry-leading automatic scanning technology and an eco-friendly LED dryer, all at an impressively compact size, the AccurioShine 3600 allows you to offer your customers a full range of high-impact finishing effects, while raising profit margins as well.

AccurioShine 3600





THE REASONS ARE CLEAR

Customisation and personalisation are increasingly in demand. Offering 2D or 3D effects can make print jobs more profitable. Research shows that many print customers are willing to pay a premium of up to 89% to add digital print enhancements.^{*1} Tactile sensation increases impulse purchases^{*2} while specialty packaging has more than 46% higher quality perception.^{*3}

^{*1} Infotrends, 2016

^{*2} Journal of Consumer Research, 2009

^{*3} The Foil & Specialty Effects Association, 2017



ADD SHINE TO YOUR BUSINESS

SAVE MONEY AND SPACE WHILE ADDING A HOST OF VALUE-ADDED OPTIONS TO OFFER YOUR CUSTOMERS



COMPACT SIZE, INFINITE POSSIBILITIES

In-house, full-production and prototype-finishing spot UV varnishing without the need for screens, plates or dies. The AccurioShine 3600 is fully equipped to allow you to provide a broader range of finishes at an impressively small footprint.

2D & 3D GLOSS EFFECTS

Using a single varnish formula, the AccurioShine 3600 digitally produces a variety of effects on a wide range of substrate stocks and media. Create both 2D and 3D finishes on paper, plastics, synthetics and cartons from 135 to 450 gsm. Add coatings to printed materials including offset and digital inks, lamination films and aqueous coatings.



SCAN AND GO

Use the workstation to manage jobs using the intuitive software suite and Artificial Intelligence SmartScanner®. The intelligent and flexible automatic registration system allows you to easily create print files with perfect front-to-back registration on every sheet with minimal waste.

GENTLE ON THE ENVIRONMENT

The AccurioShine 3600 features a closed/circuit system, leaves no ink or varnish residue, and is designed to prevent any cleaning or material waste between jobs, helping you to reduce paper, varnish and electrical consumption.



ADD SOME HEAVY METAL

Nothing makes an impression like individually customised items gilded in gold. For the first time ever, you can emboss variable data jobs with the ground-breaking iFoil One. This optional unit can be added to your system to enable show-stopping metallic foil elements in your print work in both 2D and 3D on all the same surfaces as gloss. Fully digitalised, variable and integrated.

ADD IMPACT TO EVERY PRINT JOB

Shorter lead times and a simple job set-up make it simple to add highly profitable special effects to any print job. Optional additions including the Corona Treatment System (CTS) and Automatic PDF File Converter open the door to even more possibilities.

EVERYTHING YOU NEED AND MORE

PACKED WITH INTUITIVE FEATURES DESIGNED TO OPTIMISE YOUR WORKFLOW

ECO-FRIENDLY IN-LINE LED DRYER

- On-the-fly drying and curing with integrated LEDs
- No additional drying time required
- Ozone-free and without heat thanks to LED technology
- Low power consumption

iFOIL ONE OPTION

- Industry-first fully digital variable data foiling
- Superior adhesion using hot foil stamping technique
- 2D and 3D embossed effects
- Compact in-line system

PAPER OUTPUT TRAY

- Up to 1,250 sheets at 135 gsm
- Accepts paper formats from Letter up to 36.4 x 75 cm (14.3" x 19.5")

VARNISH DIGITAL AND OFFSET PRINTS

- Varnishing on toner without lamination
- Varnishing on offset prints
- Accurate sheet-to-sheet registration with Artificial Intelligence SmartScanner® technology
- Quick and easy setup supports digital printing business model

VARIABLE VARNISH THICKNESS

- Can be adapted to individual customer needs
- Maximum 3D effect: up to 116 µm
- Minimum thickness (on laminated surfaces): from 21 µm

ARTIFICIAL INTELLIGENCE SMARTSCANNER®

- Full page scanner
- No crop marks required
- Coating registration from sheet-to-sheet
- On-the-fly skew, shift, contraction and stretch adjustment
- Optional lighting for metalized substrates



PROPRIETARY INKJET TECHNOLOGY

- Exclusive inkjet technology from MGI
- Uses our genuine piezoelectric printheads
- Flexible printing architecture

CORONA TREATMENT SYSTEM (CTS) OPTION

- Optional in-line system enables a broader variety of media to be used such as a wider variety of plastics
- Improves varnish adhesion and maximises embellishment quality on digital prints
- Optional ozone filter cabinet

POWERFUL SOFTWARE SUITE

- On-the-fly job manager
- Workstation image editor
- Catalogue of different patterns
- Job cost calculator that estimates production costs before quoting jobs
- Intuitive operation
- Eliminates customer prepress issues
- Saves time and money

VARIABLE DATA PRINTING (VDP)

- For variable data printing (text/graphic and image) on 2D/3D spot coating areas
- Optional VDP barcode scanner available

UNIVERSAL VARNISH

- No need to change varnish or clean between jobs
- Varnish comes in a 10-litre tank

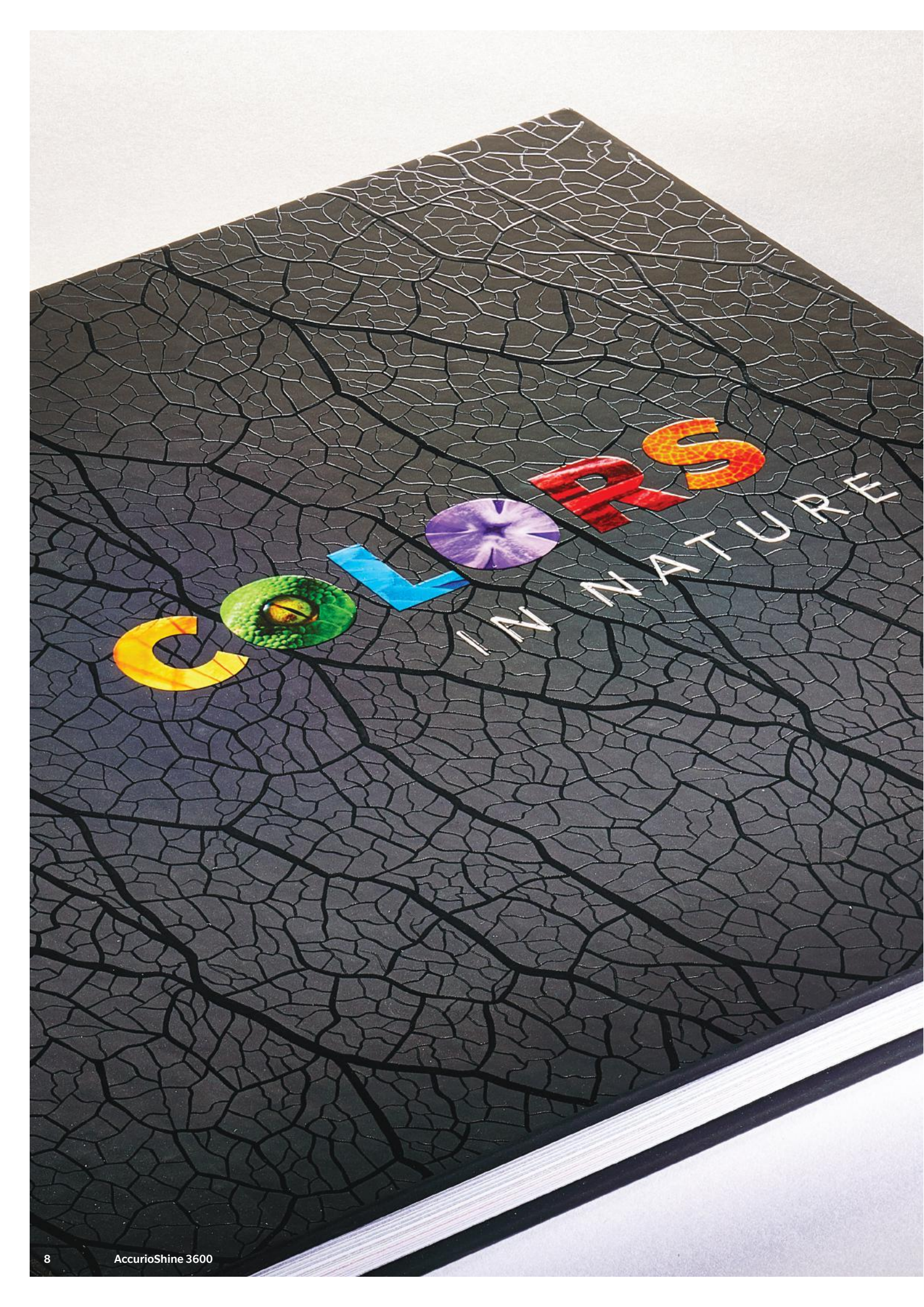
HIGH-CAPACITY PAPER FEED

- Vacuum belt feeding system
- Handles paper pile up to approximately 2,250 sheets at 135 gsm
- Accepts paper formats from Letter up to 36.4 x 75 cm (14.3" x 19.5")

HIGH-PRODUCTIVITY WITH SINGLE-PASS PRINTING

- Up to 2,077 A3 sheets per hour with varnish thickness of 21 μm (2D/flat mode)
- 1,260 A3 sheets per hour with varnish thickness of 51 μm (3D mode)
- Up to 547 A3 sheets per hour with varnish thickness of 116 μm (3D mode)



The image shows the front cover of a book. The cover has a dark, textured background that resembles cracked leather or stone. The title 'COLORS IN NATURE' is printed across the center. The word 'COLORS' is in large, bold, 3D letters with a gradient from yellow to red. The word 'IN' is in smaller, white, sans-serif capital letters. The word 'NATURE' is in white, sans-serif capital letters, slightly larger than 'IN'. The letters are arranged in a slightly curved path.

COLORS IN NATURE

EASY DOES IT

100% DIGITAL FOR PROFITABLE, STRESS-FREE PRINT RUNS EVERY TIME



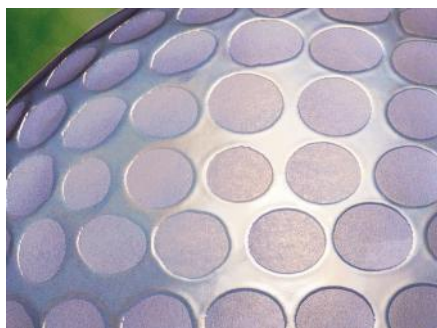
No plates or screens. No cleaning between jobs. With the AccurioShine 3600, all you need is a digital mask to add varnish of varying thicknesses straight on top of toner or offset prints. The Artificial Intelligence SmartScanner® reduces operator setup time by more than 80% and keeps jobs running smoothly thanks to automated correction during runs.

Use the intuitive software suite and interface to manage jobs and maintenance with ease. With the job cost calculator you can evaluate images, and forecast varnish consumption and costs before production starts. Edit job files directly at the workstation using the spot varnish editor, an easy-to-use graphical tool that enables operators to modify jobs without going back to prepress. Reduce preparation times down to just a few minutes and start jobs with confidence knowing that every sheet will look spectacular.

- Take on more lucrative short and medium print runs
- Prepare print runs faster
- Eliminate plates, screens and dies
- Produce more complex jobs
- Apply on top of a wide range of substrates, toner and offset prints
- Job cost calculator
- Workstation spot varnish editor

ARTIFICIAL INTELLIGENCE SMARTSCANNER® (AIS)

The industry leading AIS is changing the way digital printing and finishing works. The system uses artificial intelligence to create an automatic varnish registration over the preprinted sheet, reducing setup time by more than 80% and minimising make-ready waste. Without operator intervention, the AIS makes corrections and adjustments for any defects generated in the original offset or digital print process, including sheet and image skew, shift, stretch or contraction.



GO THE EXTRA MILE

BOOST YOUR OUTPUT WITH THESE OPTIONAL ADDITIONS



iFOIL ONE VARIABLE HOT FOIL STAMPING

Never before have the richness of precision foil and the ease of in-line digital variable data printing been combined. Traditionally a labour-intensive process requiring significant expertise and complex processes, foil embossing has remained out of reach for many printers. The industry-first iFoil One unit makes it easy, integrating hot foil stamping in 2D and 3D into your AccurioShine 3600. Use the fully digitised system with variable data to apply personalised foil elements for the ultimate in luxury expression. The iFoil One applies varnish, heat and pressure to adhere foil with precision at speeds up to 2,298 A3 sheets per hour.

CORONA TREATMENT SYSTEM

Increase the variety of media your AccurioShine 3600 can use and improve varnish adhesion. The Corona Treatment System (CTS) uses an electric charge to add micro-pitting to surfaces to prepare them for coating. Micro-pitting can increase wettability and adhesion, making it possible to add varnish on top of a wider variety of substrates. Inserted after the paper feeder module, the CTS also contains an optional ozone cabinet, keeping your workplace clean by eliminating the need for ozone ducts. Depending on media and factors such as temperature and humidity, the CTS may not improve adhesion.

VARIABLE DATA PRINTING BARCODE SCANNER

Variable Data Printing (VDP) is ideal for printing product labels, tickets or packages with small differences such as product names or barcodes. With the barcode scanner, you can make job changes as simple as scanning a barcode. The AccurioShine 3600's barcode scanner reads barcodes from a preprinted sheet and instantly selects the corresponding TIFF file already stored on the workstation. Combine the VDP barcode scanner with the Automatic PDF File Converter for a truly seamless workflow which takes files from PDF to the output tray in minutes.

AUTOMATIC PDF FILE CONVERTER

A separate PC that works as part of your network to automatically translate PDF data into the TIFF files required by the AccurioShine 3600. Once integrated, the Automatic PDF File Converter works to quickly move jobs forward, reducing the manual steps in starting a new print job.

ARTIFICIAL INTELLIGENCE SMARTSCANNER® (AIS) LIGHTING FOR METALLIZED SUBSTRATES

Add this option to enable the AccurioShine 3600 to register foil and metallic surfaces accurately. Although the AIS is equipped as standard with highly effective lighting for the vast majority of preprinted media, some substrates with metallic properties require specialised lighting to reduce glare.

ENDLESS APPLICATIONS

Digital spot UV coating adds that extra dimension to any project, helping your customers stand out from the crowd. Create tactile and visual effects on typography and images, or add 2D and 3D gloss elements to your designs.



BOOKS, BOOK COVERS, MAGAZINES, BROCHURES

Offer on-demand printing and embellishment that reduces storage costs for your customers.



GREETING CARDS, BUSINESS CARDS, EXCLUSIVE INVITATIONS

Create unique business or greeting cards on a range of substrates in small, medium or large quantities.



PACKAGING, CARTONS

Produce eye-catching packaging options on-demand, with capacity for versioning and personalisation in small and medium quantities



DIRECT MAIL, POSTCARDS

Help your customers to differentiate themselves with highly customised mail items that will outshine any email.



OTHER APPLICATIONS

- Personalised calendars
- VIP tickets
- Point-of-purchase and promotional materials
- Sheet-fed labels
- Menus

TECHNICAL SPECIFICATIONS

AccurioShine 3600

Printing technology	– Konica Minolta's exclusive inkjet engine technology – Drop-on-Demand (DoD) technology – Piezoelectric printheads, developed and manufactured by Konica Minolta – Single-pass printing – Flexible printing architecture
Coating thickness	Depending on your file, the inks used and the type of surface of your sheet, the coating thickness can vary – Laminated and aqueous coating: 21 µm – 116 µm for 3D-raised effects and tactile finish – Toner and coated paper: 30 µm – 116 µm for 3D-raised effects and a tactile finish – Lowest possible thickness using dithering mode: 7 µm (substrate permitting)
Production speed	– 2D/flat mode: Up to 2,077 A3 sheets per hour (with 21 µm) – 3D/raised mode: Up to 1,260 A3 sheets per hour (with 51 µm) – Up to 547 A3 sheets per hour (with 116 µm)
Registration	Uses the Artificial Intelligence SmartScanner® for full real-time automated sheet-to-sheet registration process; no crop marks required, registration accuracy to ± 200 µm
Formats	Min.: 21 x 29.7 cm (8" x 11.8") Max.: 36.4 x 75 cm (14.3" x 29.5") Max. printable width: 35.2 cm (13.9")
Substrate thickness	Min.: 135 g/m ² and not less than 150 µm before printing and lamination Max.: 450 g/m ² and not more than 450 µm before printing and lamination Motorized height-adjustment printheads
Substrates	– Printing on most matte or glossy laminated surfaces, with or without aqueous coating, layered paper, plastic, PVC and other coated materials – Printing directly on most digital prints with no lamination or coating required
UV coatings and capacity	10 litres (2.6 gal.) tank capacity
High-capacity automatic paper feeder	– Vacuum belt feeding system – Able to handle a paper pile up to ± 28 cm (11") approximately 2,250 sheets at 135 g/m² – All paper formats from A4 up to 36.4 x 75 cm (14.3" x 29.5")
Paper exit tray	Tray able to handle a paper pile: – Up to 15 cm (5.9") approximately 1,250 sheets at 135 g/m² – Approximately 1,250 sheets at 135 g/m² – All paper formats from Letter up to 36.4 x 75 cm (14.3" x 29.5") – No paper extensions available – Automatic tray full sensor

iFoil One (Option)

Formats	Min.: 21 x 29.7 cm (8" x 11.8") Max.: 36.4 x 75 cm (14.3" x 29.5") When using the latest upgrade kit Exit Motor Roller V4
Supported varnish thickness	Min.: 36 µm Max.: 116 µm
Substrate types	– Coated paper (best) – Matte or gloss laminated surfaces – Surfaces with or without aqueous coating – Surfaces with or without lamination film – Layered paper
Average foiling speed	30 meter per minute
Number of areas per sheet	Up to 3 stamp areas per SRA3 sheet Up to 5 stamp areas per 75 cm sheet (minimum separation distance 10 cm)
Foil specifications	– Standard foil core: 1 inch (braking system) – Foil length: Max. 400 m (do not exceed) – Foil width (roll width): Min. & Max. 320 mm

Paper path	– 100% flat paper path – Vacuum-feed system – Air-feed system – Automatic double-sheet detection – In-line LED dryer – On-the-fly drying and curing via integrated LED dryer
Maintenance and remote technical support	– Daily maintenance completed in less than 10 minutes – Majority of procedures are automated – Automatic cleaning system – From cold start to production in less than 10 minutes – Remote troubleshooting & support via included video/web camera (high-speed Internet connection required)
Pilot panel	Integrated user-friendly LCD touchscreen
Options	– iFoil One – Automatic PDF File Converter (using RIP PC-C1) – VDP barcode scanner – Artificial Intelligence SmartScanner® lighting for metalized substrates – Corona Treatment System (CTS) – Ozone filter (only available when CTS option is also fitted)
Dimensions (L x W x H)	4.02 x 1.20 x 1.80 m (13.19' x 3.94' x 5.91') Necessary clearance: 1 m (3.3') on all 4 sides
Weight	± 1,068 kg (2,355 lb)
Electrical requirements	– For Europe and the majority of the world: 7.5 kW (32 A) at 220-240 Volts 50/60 Hz -2 plugs CEE/IP44 32A(1P+N+PE) – For USA/Canada only: 7.5 kW (30A) at 208-240 Volts 50/60 Hz -2 Nema plugs L6-30P (30A 250V, 2P 3 Wires)
Operating requirements	Temperature: 18°C – 30°C (64°F – 86°F) Environment relative humidity: 30 – 50% (no condensation) Optimum: 22°C (72°F), 40% humidity
Average yearly duty cycle	±600,000 pages in 36 x 52 cm format
Respecting the environment	– Eliminates resource waste (wasted electricity, paper and varnish) – No plates (offset) or screens (screen printing) – No cleanup or preparation between jobs – Drastic reduction in consumables and use of bulk packaging – Coating without volatile solvent

Foil processing temperature	110°C is the default setting for M Series Foils Min.: 80°C Max.: 130°C
Paper exit tray	AccurioShine 3600 paper exit tray (PET) will be refitted to iFoil One upon installation Max. height: 15 cm (5.9") approximately 1,250 sheets at 135 g/m ²
Interface	Easy-to-use settings through JVTI software
Footprint (iFoil One alone)	Length: 138 cm (with PET: 183 cm) Width: 124 cm Weight: 504 kg
Electrical requirements	2 plugs CEE 17 IP44 32A (32A 250V, 1P+N+PE)

The default sheet format is A3, unless otherwise stated:
1) with an additional option installed
2) speed will vary according to printing parameter used
3) confirm substrate/toner compatibility with Konica Minolta



For Plastic Waste Management Details



For Battery Waste Management Details

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