DOMINO

Ax550i - maximum printing flexibility

The Ax550i heavy-duty continuous ink jet (CIJ) printer is designed to deliver high quality codes even in the harshest environments onto virtually any surface and product.

The Ax550i is compatible with Industry 4.0 standards. Connecting to Domino Cloud enables remote diagnostics and 24/7 visibility of your printers' performance. The touchscreen user interface provides a class-leading user experience.

Coding automation and integration into your ERP and MES business systems are supported. Connect to Domino Cloud to benefit from remote printer performance overviews and diagnostics.

Maximised production uptime

◆ The stackable marine grade 316 stainless steel cabinet is dust-tight and with a sealed IP66 electronics enclosure made to withstand washdowns, highpressure water blasting, or chemicals.

◆ The Ax550i is service-free; only the iTechx module (ITM) needs to be replaced once annually, which is a less-than-ten-minutes operator task.

◆ Coding automation and integration into your ERP and MES business systems are supported. Connect to Domino Cloud to benefit from remote printer performance overviews and diagnostics.

i-Pulse printhead technology

◆ Printheads start up first time even after extended shutdowns thanks to Domino's unique nozzle-sealing technology.

◆ Best readability and best reliability at faster speed in a higher 9-drop resolution (versus traditional 7 drops) plus saving up to 24% in ink usage result from optimised ink drop formation.

◆ Printheads for every application: 90-degree angled and rotatable printheads for narrow products; highly durable, hygienic round steel variants for heavy duty environments; 40μ and 50μ printheads for small, precise codes and the Duo printhead for doubled speed.
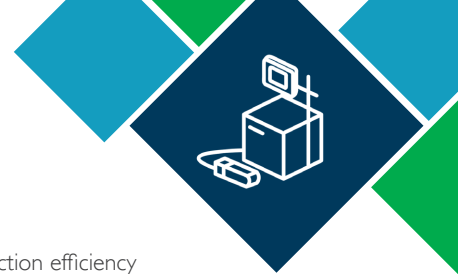
Adding value to your product

◆ Domino supplies a range of inks manufactured to GMP (Good Manufacturing Practice) which are compliant with leading global legislation for food packaging.

◆ Our inks offer lasting adhesion, lightfastness and high contrast even on difficult substrates (e.g. polyolefins) and after harsh post-print processes.

◆ Environmental-friendly options, reduced ink consumption, optimised packaging and fully-depleting cartridges reduce waste and ecological footprint.

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Domino. Do more.

A complete solution

Our services are designed to provide operational insight so you can eliminate downtime and maximise production efficiency

Operational support

An outstanding level of care, wherever you are. Our SafeGuard packages provide high-quality, on-site assistance and AR-enabled remote guidance from our engineers. SafeGuard helps to ensure we can be with you when you need us most.

Automatic code inspection

Ensure every code that leaves your factory is present and correct, and free up operator time. With the R-Series, Domino's range of vision control systems, you can automate your code inspection to validate code presence, placement, and readability.

Control software

Minimise errors using Domino's QuickDesign software. Control your product codes from a central location and streamline product changeovers. QuickDesign uses standard communication protocols and can be integrated into existing ERP systems.

Smart production

Gain operational insight by connecting your printer to Domino Cloud. Obtain production analytics dashboards and receive system error alerts. Domino Cloud provides you with the information you need to run your operations more efficiently.

Technical specification **Ax5**50i

Printing Specification

Printhead nozzles	40µm	50µm	60µm	75µm
Speed – 1 line, 5 dot characters(m/s)*	5.3	5.9	7.1	6.8
Dot size(mm)**	0.23	0.26	0.31	0.4

Print heights (single print head)	Up to 32 dots/20mm
Print heights (Duo)	Up to 64 dots/40mm
Supported code formats	full unicode support text, graphics, 1-D, 2-D codes

Ownership Specification

User interface	7" and 10.4" touch screen options
Conduit length	3m & 6m options
Printhead type	Straight, H90, V90, RS and Duo
Software	*QuickStep 3*
Comms ports	Cabinet USB port (x1); Ethernet RJ45 port (x1)
Printer status monitoring	4 stage beacon output (x1); 3 stage alarm output (x1)
Cartridge replacement (Ink and make-up)	Auto recognition; 20 second operator task; no line stop required
Servicing – ITM replacement	Sub 10 minute operator task, line stop required
Service interval***	Typically every 12 months
Material	316 stainless steel, IP55 cabinet; IP66 electronics enclosure

Consumables****

Inks	Wide range of black and coloured inks including options for food packaging, eggshells, colour change, industrial, UV-fluorescent
Ink cartridge volume	825ml
Make-up cartridge volume	1200ml

Optional Hardware Packs*****

Extended comms pack	Cabinet USB port (x1); control port (x1); touchscreen / Ethernet port (x1)
RS232 pack	RS232 port (x1)
GPIO pack	I/O – 4 inputs/4 outputs (x1)
Extended I/O pack	I/O - 12 inputs / 6 outputs (x1)

Optional Performance Packs

Operator assistance pack	Label templates; barcode scanning for labels and data entry; local security manager
Green pack	Up to 20% reduction in make-up emissions; configurable printhead and ink-system stand down for reduced power usage
Continuous printing pack	Dedicated user screens for faster changes during production; easier label creation; high speed print formats (ST&HS rasters)
Advanced security pack	Full security manager to secure user interface and provide customisable permissions based on individual user logins

*Speed qouted at the following characters per inch ---- 60um = 10 characters. **Dots size may vary depending on substrate type.
***Service interval is ink type dependent. ****This product has a Quality Management System that means that it will only work with Domino circuitry, and it uses dynamic security measures to block non-Domino circuitry from being used. From time to time updates to the circuitry will be issued by Domino to maintain the effectiveness of the Quality Management System. *****May vary per sales region.

Logos and 2D Codes

Multi Language and Mixed Fonts

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