

# Ax550i – advanced heavy duty printer

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.

Domino's service-free ink system with **i-Pulse** printhead technology utilising Domino-developed inks provides clear, readable text, graphics and barcodes while ensuring regulatory compliance.



## 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, high-pressure 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 reliability at faster speed in a higher 9-drop resolution (versus traditional 7 drops) plus up to 24% less 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.

## Codes to create a lasting impression

- ◆ 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.

[www.domino-printing.com](http://www.domino-printing.com)

**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 Ax550i

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;			
Servicing – ITM replacement	20 second operator task; no line stop required			
Service interval***	Sub 10 minute operator task; line stop required			
Material	Typically every 12 months			
	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			

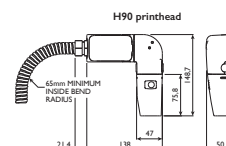
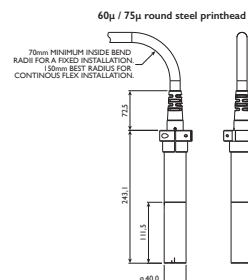
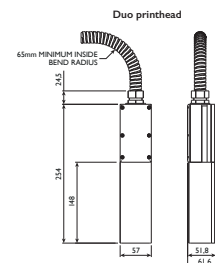
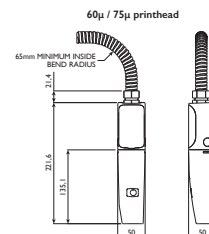
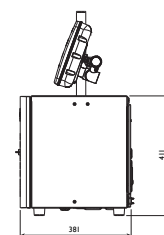
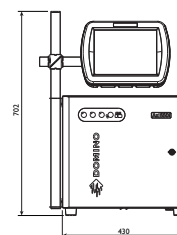
\* Speed quoted at the following characters per inch ----75µm = 8 characters, 60µm = 10 characters. 50µm & 40µm = 14 characters

\*\* Dots size may vary depending on substrate type \*\*\* Dependant on ink type and ITM choice \*\*\*\* May vary per sales region

## Logos and 2D Codes



## Multi Language and Mixed Fonts



## TALK TO AN EXPERT

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