



# The A420i ink jet printer

Uses less. Does a lot more.



The *intelligent Technology* in Domino's **A420i** meets your exact coding needs with reduced makeup use and no servicing, yet costs less to run than any other ink jet printer.



Scan the code to find out more  
about A-Series I-Tech

Domino. Do more.

## Efficient, high performance coding

From the moment you press the start button, the *intelligent Technology* within the **A420i** continuous ink jet printer reduces your total cost of ownership.

The **A420i** builds on our heritage of delivering highly reliable continuous ink jet printers: it is there for you when you need it on your production line, with class-leading 99.75% availability.

Our unique service free **i-Tech** ink system delivers ultra-low makeup usage, reducing costs and operator intervention.

The **A420i** simply has the flexibility to meet your exact coding requirements, whether they are for high speed, microprinting or difficult substrates.



## The **i-Tech** ink system ... designed for optimum performance in your application

Domino's specialist, custom and **i-Tech** inks, available worldwide, are designed with optimised code quality, reliability and running costs. *intelligent Technology* is at the heart of the printer ...



### Greener credentials

Domino is committed to sound environmental practices and minimising the consumption of natural resources and energy and the creation of waste. We invest in our supply chain to ensure good social and environmental practice and we are supportive of developments to improve corporate accountability. We meet all RoHS requirements and frequently exceed WEEE compliance on our products.

### A420i

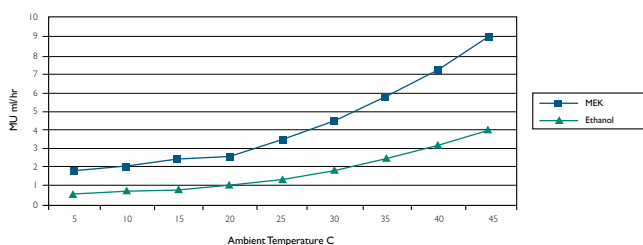
The A420i, with its reduced service routine and intelligent ink life, minimises waste ink by up to 90% - make up use has been reduced to less than 1ml per hour at 20°C. This, combined with 40% reduced weight (versus previous models), helps you to reduce your carbon footprint. With advanced energy saving software the printer can even automatically shut down when your production line stops.

# A420i ink jet printer

## Efficient – lowest total cost of ownership

### Lowest makeup usage

The **A420i** printer has the lowest make up consumption of any ink jet printer; saving you time and money: makeup typically lasts four times longer than other printers in its class.



### Reliable

The **A420i** printer is always available – with typically class-leading 99.75% reliability.

The self-sealing **CleanFill** cartridges can easily be changed while the printer is still operating, and the larger volume makeup cartridges provide extended runtime between changes – with the result that the **A420i** is online for longer; with fewer interruptions and less waste.

### Service free – no maintenance, no fuss

At the heart of the **i-Tech** ink system is the revolutionary **Qube**, which contains the working ink and ink filters. Changing the **Qube** is a job that anyone can do in less than 10 minutes.



## Easy to use – because your time is precious

**QuickStep** User Interface – no action is more than 3 clicks away

**QuickStep** is our unique, simplified operator interface that gets the printer in action as quickly as possible. No complex menus or parameters, just enter the job and away you go.



### Convenient

Just press a single button and walk away. We call it **SureStart**. It's our unique print head with a nozzle sealing and flushing process that guarantees consistent performance.

### Simple

Even our consumables are colour-coded for complete day-to-day convenience.



## A420i variants

### Flexible – to meet your exact coding needs

We offer a range of additional flexible options – from high-definition micro printing to single or twin jet. With its clever modular design, the print head has easily replaceable parts without the need to replace the complete print head and conduit. Efficiency is guaranteed with low makeup usage, in both the Duo™ and Pinpoint™ print heads – and you have the options of heavy metal and halogen-free inks.

#### A420i Duo™

##### Quick

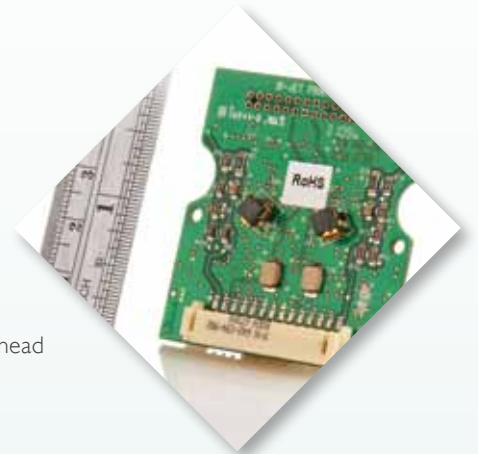
High speed printing without loss of quality – the fastest and most efficient continuous ink jet printer available for your coding needs today. Uniquely deploying two ink jets within the same head, the Duo™ can print twice as quickly – to meet demanding high speed requirements. The Duo™ can also print up to 8 lines of text (twin 4-line codes) for multi-line printing applications.



#### A420i Pinpoint™

##### Flexible

High definition micro printing under 1mm high – we can code even the smallest component. Ideal for all applications requiring discreet and high quality coding, the modular design and heated head technology ensure consistent code quality from startup to shutdown.



### User Interface Options

##### Versatile

A range of User Interface (UI) options to suit every application and make management of multiple printers more convenient.

- Onboard interfaces – keyboard or touchscreen
- Remote and web server
- Standard functions and networking protocols

**Domino. Do more.**



# A quick tour around the A420i

This generation of primary coders deploys our unique *intelligent Technology* system, **i-Tech**. Our aim was to make production lines lower maintenance, lower cost and more efficient. **i-Tech** has helped us to achieve that aim.

**QuickStep** Easiest and most intuitive user interface

**i-Tech** ink system delivering the lowest makeup usage on the market

**i-Tech** ink system delivers service free coding – just change consumables and the printer will keep on performing



## Pinpoint™ samples

3 LINE  
HI-DEF  
CODE **Domino**

DOMINO hi-def MICRO PRINT DOMINO P/N 642-154-982

DOMINO hi-def **PinPoint**

DOMINO hi-def **PinPoint**

## Duo™ samples

LARGE  
MEDIUM  
AND SMALL

ULTRA HIGH SPEED  
TWIN LINE PRINTING

8 LINES  
OF HIGH  
QUALITY  
PRINTING  
05/12/15  
05/12/15  
05/12/15  
BATCH 5R4

6 LINES  
OF HIGH  
SPEED  
CIJ 7x5  
PRINTING  
12345

**DUO**  
FLEXIBLE  
AND FAST  
**DOMINO**  
14:46:05  
05 DEC 2012

Heavy Duty IP55 print head cover gives the ultimate protection

**Duo™** print head delivers market leading speed and quality for twin line and up to 8 lines of code

**Pinpoint™** print head delivers high definition micro-print capability

**SureStart** print heads give market leading start / stop performance with a wide range of options to fit in your tight spaces



**Domino. Do more.**

## Technical Specification:

### A420i

#### Operational Capability

Max number of unicode characters per line	255
Max number of lines Standard	4
Max number of lines Duo	8
Max number of lines Pinpoint	3
Max number of messages per store	256
Max number of stores per printer	16
Max line speed (SL 5x5)	325m/min

#### Interfaces

QVGA (320x240) with <b>SureTouch</b> key board	Standard
SVGA (800x600) colour touch screen	Optional
<b>TouchPanel</b> remote touch screen	Optional
Ethernet (web server and email alert function)	Standard
USB	Standard
RS232	Optional
Domino Protocols	Codenet/ Intercom
Industry Protocols	ZPL (limited)
4 stage 24v beacon (Port is standard)	Optional
4 stage voltage free contacts	Standard
Programmable i/o (8 Inputs and 8 outputs)	Optional
Product detect	Standard
Shaft encoder	Standard

#### Graphical User Interface

**QuickStep**, full colour interface. Intuitive navigation via large, easy to read buttons and icons; WYSIWYG print preview. Multi-language support.

#### Environment

Weight	24.5kgs
IP rating	IP55
Operating temp	5-45°C (40-112°F)
Humidity	10-90%RH
Power requirement	100-240V:4A 50-60Hz
Power consumption	56.3 Watts

#### Compliance

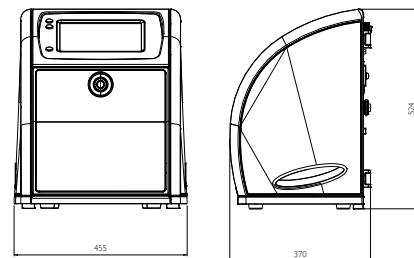
CE	Standard
TUV	Standard
RoHS	Standard
Sony Green Partner	Standard
Eupia compliant inks	Standard
Heavy metal free inks	Available
Halogen free inks	Available

#### SureStart Print Head

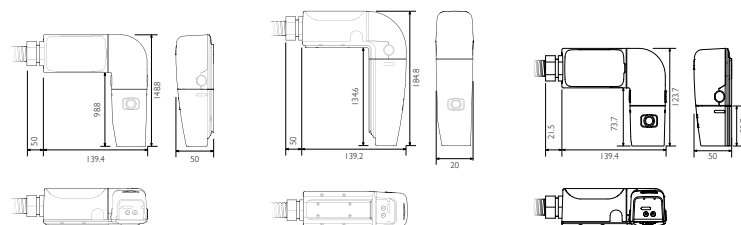
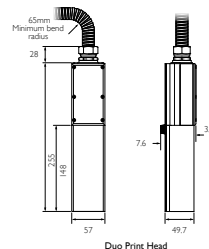
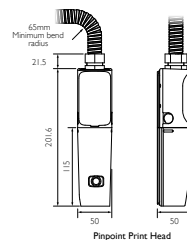
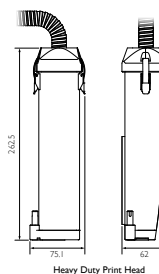
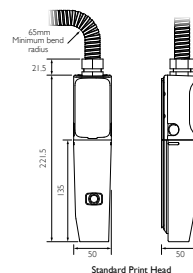
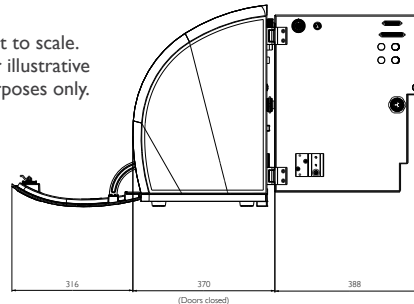
Standard and Duo	
Conduit length	3m standard or 6m optional
Nozzle size	60µ or 75µ
Pinpoint	
Conduit length	3m standard or 4m optional
Nozzle size	40µ
Conduit bend radius	65mm
Heater	Standard
Positive air pump	Optional
Air Dryer	Optional

#### Ink System

<b>i-Tech</b> ink system	Standard
<b>CleanFill</b> ink cartridge	825ml*
<b>CleanFill</b> MU cartridge	1200ml*
<b>Qube</b> replacement	Ink dependent*
Routine servicing	None
* operator task	



Not to scale.  
For illustrative  
purposes only.



Horizontal 90 Degree Print Head Installation Dimensions

Vertical 90 Degree Print Head Installation Dimensions

Horizontal 90 Degree Pinpoint Print head