The X630i digital corrugated press

The new business model for box printing

Enables the profitable development of short
and medium run market opportunities

Domino. Do more.

The new business model for corrugated box printing

For corrugated converters, the Domino X630i single pass digital press will enable you to profitably develop short and medium run market opportunities; facilitating new streams of business and providing a more complete range of capability for your customer base.

The X630i is based on Domino's proven Generation 6 ink jet platform, with approaching 1,000 global industrial ink jet installations. With over 40 years of ink jet experience, the X630i includes truly unique Domino *intelligent Technology* components, combining to create a system altogether more flexible and reliable. The most versatile Domino **AQ95** aqueous ink set, provides both food packaging compliance and the capability for printing on coated corrugated board types.

Applications

The X630i uses Domino's latest **AQ95** aqueous ink set. This uniquely combines outstanding jetting performance with the capability to print on both uncoated and coated corrugated substrates, for a wider range of applications, and without the need to apply a primer or a bonding agent.

Ideal for:

✓ Shipping boxes
✓ Shelf-ready packaging
✓ Point of purchase display
✓ Point of sale displays
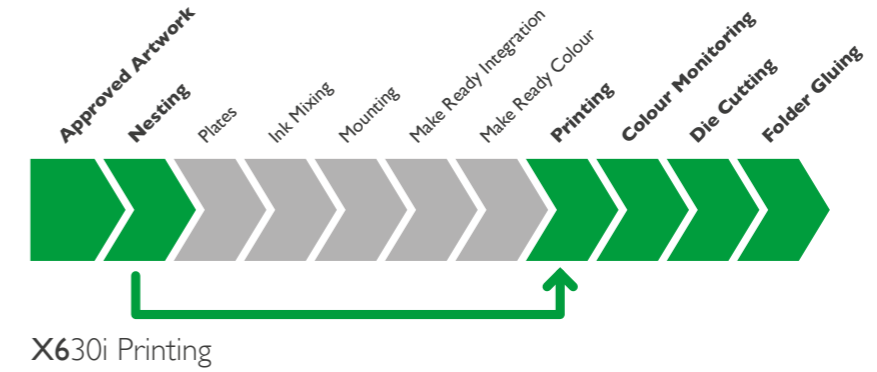✓ Free standing display units

Why digital?

When you remove the need for printing plates, job set-up time and product waste, you can start thinking short run jobs are attractive.

Let's make production efficient
Does short run work tie-up your capacity with regular job changes, time coordinating printing plates and manpower to be on the line at the right time, extra order processing? With the Domino X630i, multiple jobs are planned in the pre-press department, and then can be run continuously without any stoppages – in every hour you can produce many different jobs and SKUs.

Who wants profit?
The Domino X630i reduces the cost to do a job change, enabling you to rebalance production between equipment to drive up efficiency, output is then increased, costs reduce – your profit margins improve.

Approved Artwork → Nesting → Plates → Ink Mixing → Mounting → Make Ready Integration → Make Ready Colour → Printing → Colour Monitoring → Die Cutting → Folder Gluing

X630i Printing

Give yourself a dose of competitive advantage

Have you tried and then failed to win attractive business because you had no points of difference?
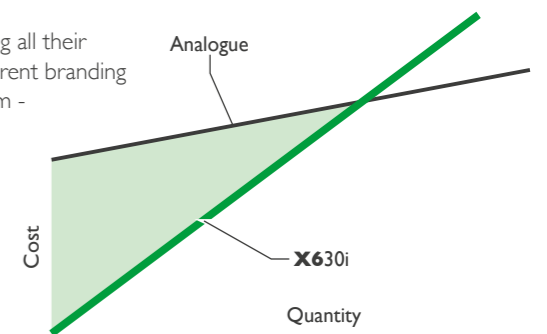
Offer as many variants as they like!
Does your costing model force customers to simplify their requirements, for example, printing all their corrugated packaging with the same branding to help your efficiency, when they wanted different branding for each SKU? Digital printing means product variants no longer attract a set-up cost premium - you win new business and attract higher value production.

Reduce your lead time and minimum order quantities
How many customers would prefer shorter lead times and smaller minimum order quantities? – The Domino X630i makes this all possible – it will grow your business.

But I want longer run work?
When you take on a customer's perhaps less attractive short run work, it is an incentive for them to give you "all" their work, growing both digital as well as your longer run conventional print production.

Analogue

Cost

X630i

Quantity

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Take a closer look inside the **X6**30i

intelligent Technology

i-Tech components combine to create a system altogether more flexible and reliable.

1. Domino Generation 6 Ink Jet System

The proprietary ink jet system design, based on 600dpi Kyocera print heads, delivers more consistent print results and higher reliability than other alternatives.

- 4 colour CMYK
- **AQ95** aqueous inks
- 600 × 600dpi print resolution
- 4,500 sheets per hour*
- Print area: 3,000mm × 1,345mm (118" × 53")

2. i-Tech *CleanCap*

Automated print head cleaning and capping ensures the highest productivity – print heads are cleaned and ready for production within one minute. Less manual cleaning reduces the risk of damage.

3. Near Infrared Dryer

Even with coated corrugated materials, it consumes less energy than competing products during operation.

6. i-Tech *StitchLink*

Micro-motor controllers precisely align each print head – creating a seamless image across the corrugated sheet to deliver the high print quality results.
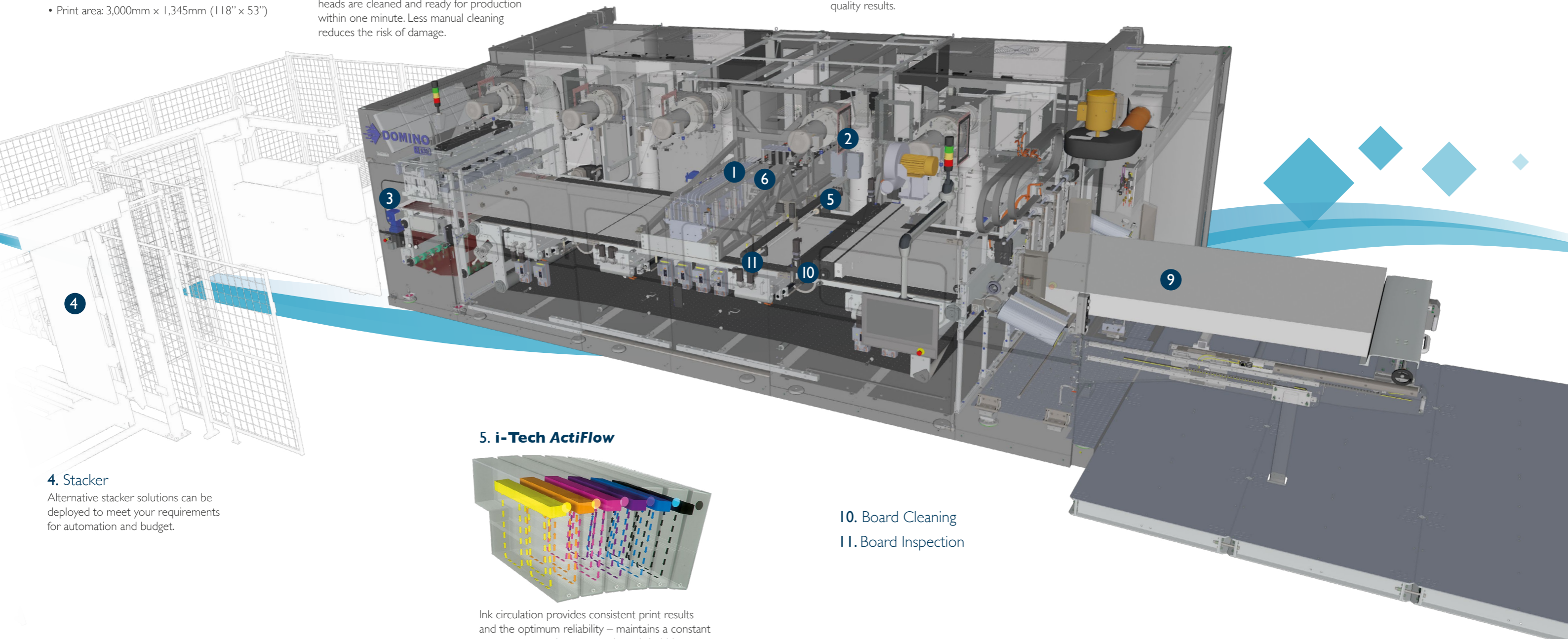
7. ESKO Digital Front End

Industry standard PDF workflow that can easily integrate with your pre-press department and preferred management information system. Variable data printing for traceability and added value applications.

8. Footprint

Excluding optional stacker, only 12m × 7m footprint (38 × 21ft).

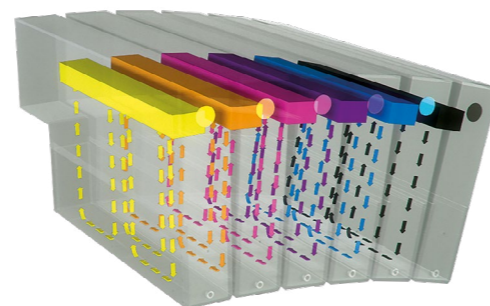### 9. Lead Edge Feeding System

Fully automated, servo driven, continuous bottom feeding system. Automated setup for sheet sizes and caliper, vacuum assist, stores jobs and sheet sizes for quick setup. Can feed E to BC flute sizes.

4. Stacker

Alternative stacker solutions can be deployed to meet your requirements for automation and budget.

5. i-Tech *ActiFlow*

Ink circulation provides consistent print results and the optimum reliability – maintains a constant temperature and removes micro air bubbles enhancing ink jetting stability.

10. Board Cleaning

11. Board Inspection

*900mm × 1,500mm (36" × 60") sheet size
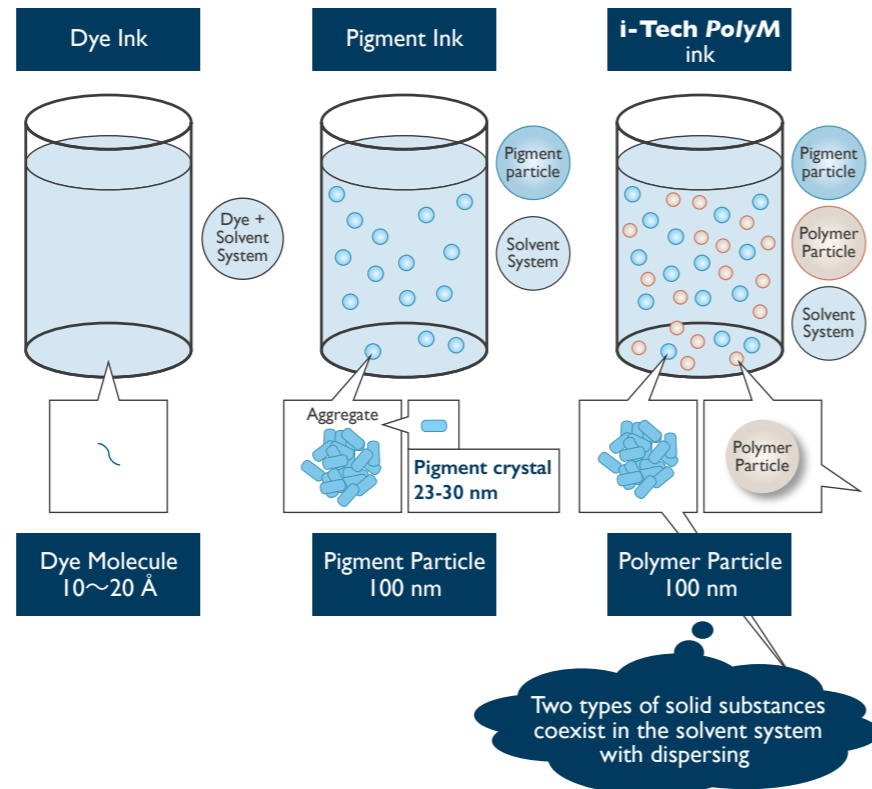
Domino. Do more.

Not all aqueous inks are the same

The Domino **AQ95** ink set combines the ability to reliably print on to coated and uncoated corrugated topliners, but without the need of a primer or separate bonding agent, while at the same time, still providing food packaging compliance. Match that!

intelligent Technology to print on coated materials

Traditional aqueous inks consist of either dye or pigment combined with a solvent, but this does not achieve both reliability and adhesion required for coated materials. Priming and bonding agents can be used to enhance performance, but with added complexity and cost.

Domino **i-Tech PolyM** is a unique micro polymeric particle component included in the **AQ95** inks, allowing reliable printing onto coated substrates without the need for separate primer or bonding agents.

Dye Ink

Dye + Solvent System

Dye Molecule
10~20 Å

Pigment Ink

Pigment particle

Solvent System

Aggregate

Pigment crystal 23-30 nm

Pigment Particle 100 nm

i-Tech PolyM ink

Pigment particle

Polymer Particle

Solvent System

Polymer Particle

Polymer Particle 100 nm

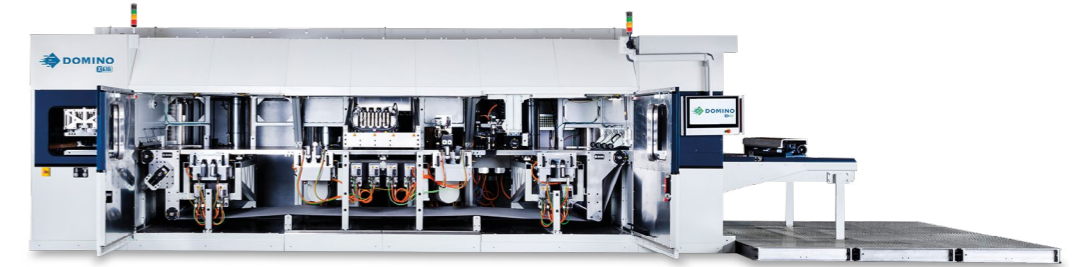Two types of solid substances coexist in the solvent system with dispersing

About Domino

Founded in 1978, Domino Printing Sciences, has established a global reputation for the continual development and manufacture of coding, marking and digital printing technologies that meet the needs of its customers and set new industry standards in quality and reliability.

With approaching 1,000 Domino Generation 6 digital ink jet platform installations, Domino Digital Printing Solutions is the global industry leader.

Through a global network of 25 subsidiary offices and in excess of 200 distributors, the Domino Group operates in over 120 countries employing over 2,800 people worldwide with manufacturing facilities situated in UK, China, Germany, India, Switzerland, Sweden and USA.

On 11 June 2015, the Domino Group was acquired by Brother Industries Limited.

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Plus you get food packaging compliance

The Domino **AQ95** aqueous ink set is suitable for many non-direct food packaging applications. All materials used are listed on the Swiss Ordinance for Food Packaging Inks. It has been developed in line with Nestlé's guidance on food packaging inks and is fully compliant with the EuPIA exclusion policy.

Add excellent mechanical properties

Besides outstanding adhesion, AQ95 has excellent light fastness, achieving a blue wool scale of six with black achieving the maximum eight rating. Over varnishing is seldom a requirement.

Greener credentials

Domino's commitment and investment in sound environmental practices means we frequently exceed the increasingly demanding governmental, industry and company standards and regulations. We are committed to minimising the consumption of natural resources and energy and the creation of waste. Our ink jet printers are RoHS and WEEE compliant so they are recyclable.

X630i
The **X630i** requires no plates, no plate making process, no associated materials required for washdown purposes and minimal set-up waste. It consumes less energy than competing products during operation.

Supplied with the environmentally friendly Domino AQ95 aqueous ink set. Aqueous inks offer significant environmental benefits compared to solvent inks, where up to 95% of solvent can evaporate into the atmosphere, and UV-curable inks that are not ideal for food and pharmaceutical applications. AQ95 has low fluids consumption compared to other digital technologies, with no additional priming or bonding agent and due to the outstanding mechanical properties it also does not require over-varnishing.

But most of all, digital printing changes your business model and provides the capability to 'print-on-demand' resulting in less over-printing and reduced storage requirements, limiting the amount of waste created due to obsolescence as well as in the production process.

DOMINO

Technical Specification:

Press Modules
- Feeder
- Transfer In
- Board Cleaning
- Board Inspection
- Print Section
- Transfer Out
- Dryer

Technology
- Piezo Drop on Demand ink jet
- Infrared drying

Printing Speed
- 50m/min (164ft/min)
- 75m/min (246ft/min)

Image Resolution
- 600dpi native plus 3 greyscales

Media-Sheet Size Range
508 × 762 to 1,600 × 3000mm
(20 × 30 to 63 × 118 inch)

Image Format
Maximum Print Area 3000mm
(118'') × 1345mm (53'')

Media Type
- Coated, Uncoated & Kraft
- Sheet caliper: E to BC fluted corrugated

Inks
- Cyan, Magenta, Yellow, Black
- Aqueous Inks.
- EuPIA, Nestle, Swiss compliant

Workflow
- Esko DFE 2.2.3
- Colour Pilot 18.1
- Domino ScreenPro HS
- Step and repeat, colour management, cropping, edge to edge printing, saturation control, and hot folders.

File Formats
PDF Versions: 1.3; 1.4; 1.5; 1.6; 2.0; PDF/X-1a or PDF/X-3 and PDF/VT

Environment
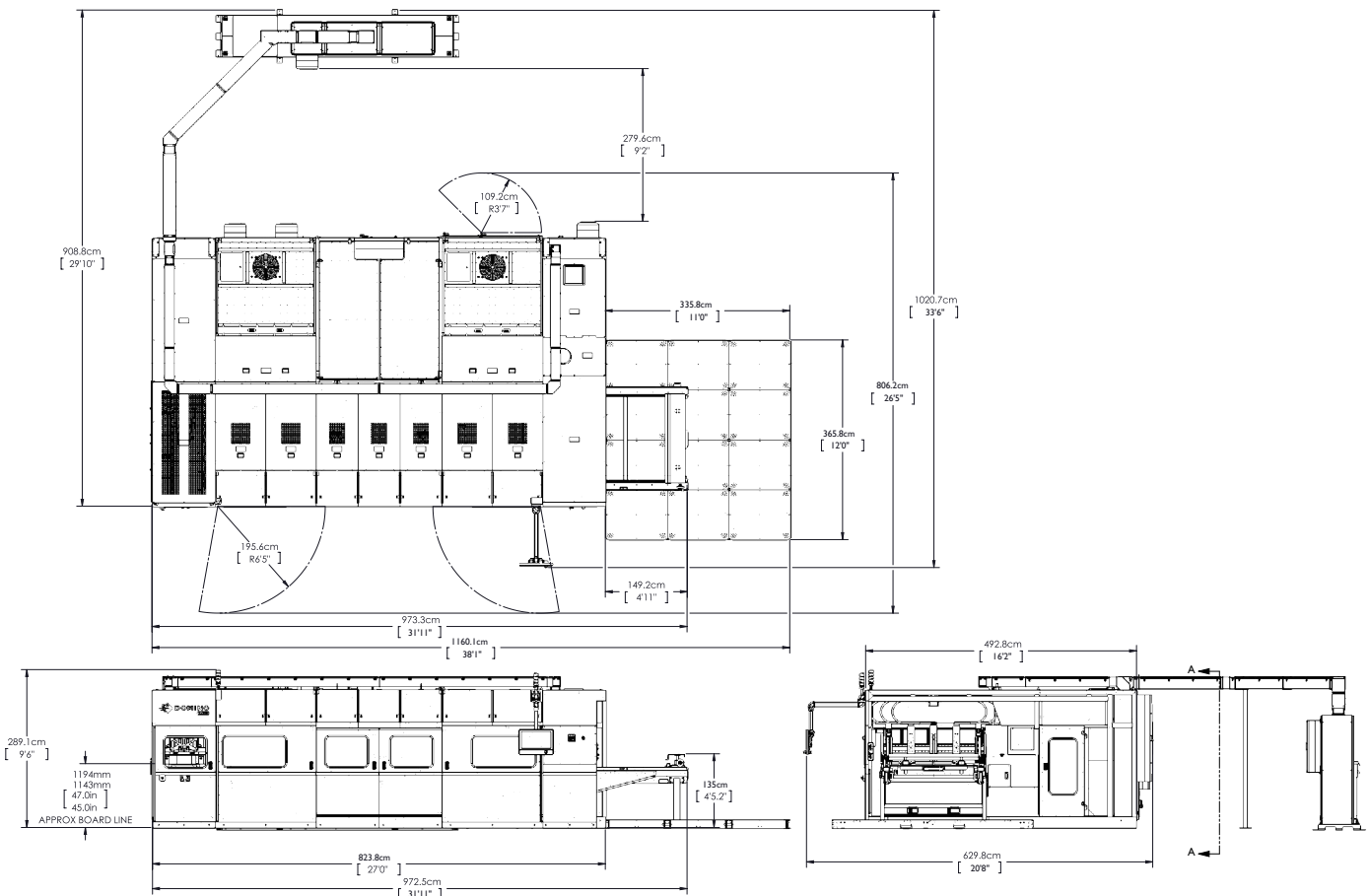The X630i is self-enclosed with temperature and dust control

Press Dimensions
- Length 1160.1cm (38'1'')
- Width 629.8cm (20'8'')
- Height 289.1cm (9'6'')
- See Floor Plan Drawing for details
- Note: Excludes optional stacker

Weight
- Feeder: 5000kg (11,023lbs)
- Transfer In: 5455kg (12,026lbs)
- Print Section: 7273kg (16,034lbs)
- Transfer Out: 5000kg (11,023lbs)
- Dryer: 3636kg (8,016lbs)
- Total: 26364kg (58,122lbs)

Services
- **Electrical**
  440-480 VAC /60Hz/3 Phase
- **Air**
  100psi (8.0 Bar) minimum for actuators (minimal SCFM/Airflow required). No continuous-flow air-operated devices used
- **Water**
  No water supplier required
- **Drain**
  Required for HVAC unit condensate

www.domino-printing.com

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