

**Decoration of
Exterior Wall Materials
by inkjet**

Kenzai JET

Kenzai JET-SP(SuperPro) / Kenzai JET-Pro

Kenzai JET is designed for decorating various types of building board.

It achieves practical level of production speed. We offer a variety of inks for this printer.
Can be printed on boards up to 50 mm in thickness.

Overview of Kenzai JET and IJ Decorations

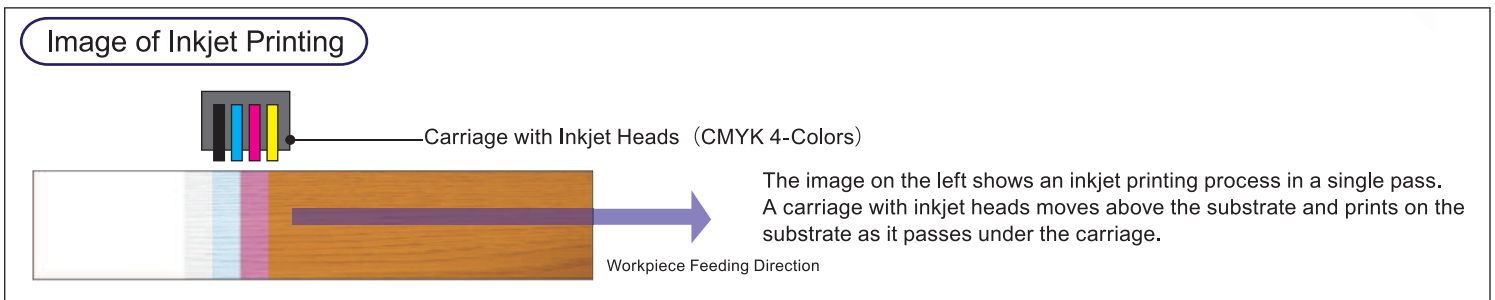
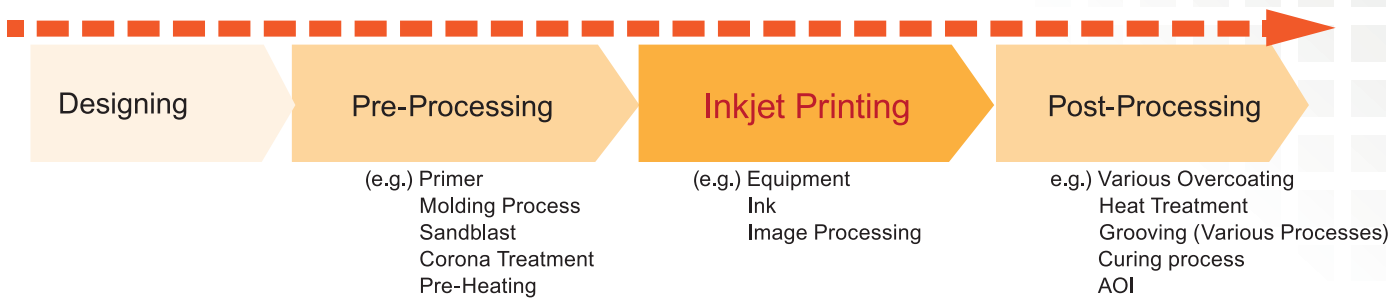
The inkjet technology has been attracting attention as an application for decorating building materials.

- ① Full-color printing improves the expression of wood grain, stone grain, and gradation.
- ② Non-contact printing enables direct decoration on uneven surfaces.
- ③ No plate-making process is required, making it suitable for production of a wide variety of products.
It is also suitable for decoration of large sizes.

We are working on providing full-scale inkjet systems for building materials by taking advantage of the features of our inkjet technology to solve a variety of problems.

- ① Our customers need a total solution that includes pre- and post-printing processes. We work with you to create print samples for evaluation and to resolve issues.
- ② One of the advantages of digital decoration systems is the high quality of the design. This is due to the technology of digital image processing. We work together with our customers to create the necessary systems such as color matching and optimal image processing for the material.

Inkjet Printing Process as part of the Overall Process



About Ink



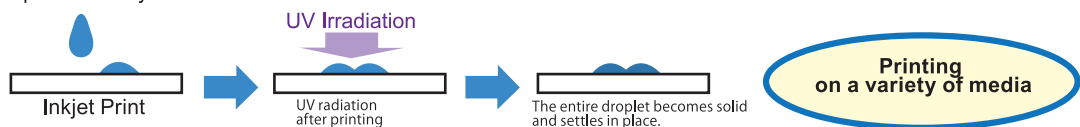
Special inks are available for exterior and interior walls, and custom inks are also available.

- ① UV inorganic pigmented inks, 4 colors of CMYK → **Exterior wall (highly weather-resistant)**
- ② UV organic pigmented inks, 4 colors of CMYK + W (white) → **Interior wall (High coloring)**

UV ink

UV ink is cured by UV curing device.

It is more energy efficient than heat-drying. Since UV ink is instantly cured, it contributes to improved productivity and quick delivery.



- Please note that the hardenability of ink varies depending on the base material and printing conditions.
- Please check and judge the light (weather) resistance of the ink by the customer who will use it.

Kenzai JET Series

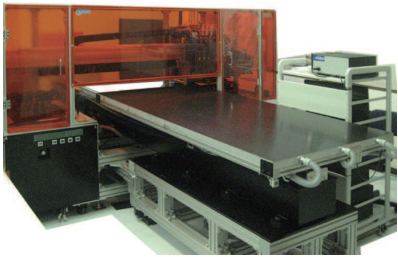
● There are two types of printer : the scan type Kenzai JET Pro and the fixed head type Kenzai JET Super-Pro.

Scan Type

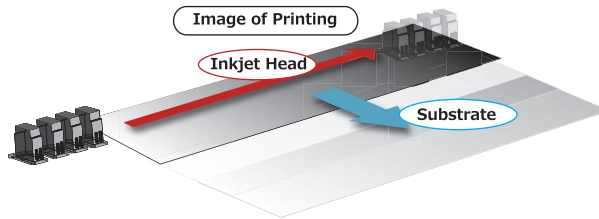
This is a flatbed type printer that performs inkjet printing by scanning the head from side to side on a flatbed stage (= shuttle system). This system is suitable for decorating applications that require small lots and high quality.

Kenzai JET-Pro

Stand-alone System



Wood-grain printed sample



Work flow

- 1) The worker sets the workpiece on the table.
- 2) The workpiece is held in place by suction or by a clamping device.
- 3) If necessary, the cutout data is entered on screen.
- 4) Press the Start Print button.

Head Fixed Type

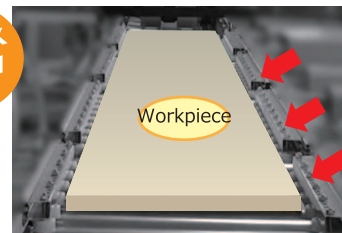
A workpiece passes under the fixed head to perform single-pass inkjet printing. The high productivity makes it possible to introduce the system into production lines.

Kenzai JET Super-pro

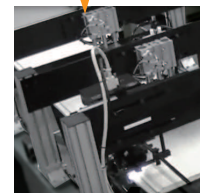
Inline System



Work flow



① The workpiece is positioned to one side.



② Aligning the print pattern with the camera



③ Inkjet printing

④ UV Curing

⑤ To the next process

Kenzai JET Technical Features and Basic Specifications

Productivity per hour (calculated under certain conditions)

Kenzai JET SuperPro Approx. 400m²/h (Standard mode)

Kenzai JET Pro(1-head/Color) Approx.45m²/h (Standard mode)

Alignment of Decorated Data to Substrate

Positioning and various corrections by image processing enable practical level positioning.

System configuration for stable and Continuous printing operation

With water-based inks, unused nozzles are more likely to become clogged. Normally, it is necessary to stop printing and clean the nozzle. Tritek has devised a method (*1) to reduce the number of nozzle cleaning operations as much as possible and has realized stable printing and high productivity.

*1 This feature is not available on the Kenzai JET Pro.

Basic Specifications

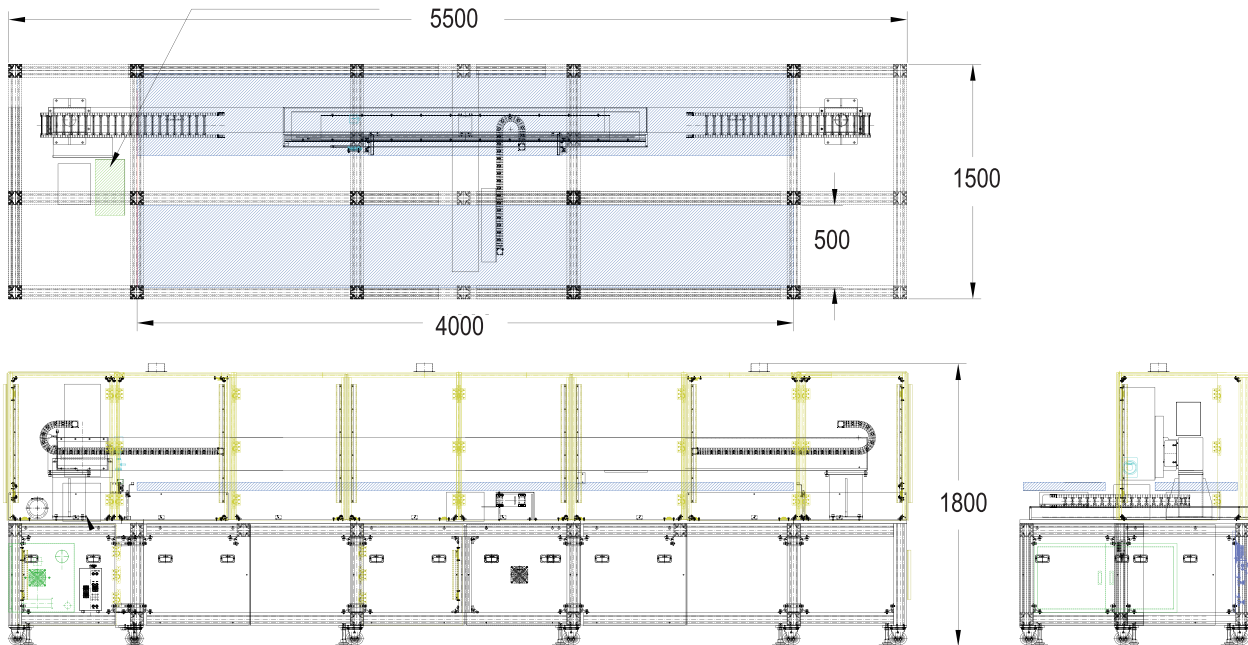
	Kenzai JET-Pro (Standard Spec)	Kenzai JET SuperPro
Head Type	Various Heads Compatible with Water-based and UV Inks <small>*we can also provide the UV lamps necessary for the use of UV inks. If you use water-based inks, please provide your own drying facilities.</small>	
Work Size	MAX.4000mm×400mm	400mm (X-direction) * (Y)
Productivity	Approx. 45m ² /h (Standard mode) 30m ² /h (High Quality mode) 60m ² /h (High Speed mode)	Approx. 400m ² /h (Standard mode) 800m ² /h (High Speed mode)
Print Resolution	360×360dpi、 360×720dpi、 360×180dpi	360×360dpi、 360×180dpi
Ink Supply Method	Automatic Ink Supply from Main Tank to Sub Tank	Automatic Ink Supply from Main Tank to Sub Tank
Fixing Method of the Substrate	Fixing Jig(Tool) or Air Vacume Table	Air Vacume Belt
Z-axis Adjustment	Approx. 50 mm depending on the thickness of the workpiece : Manual Adjustment	Approx. 50 mm depending on the thickness of the workpiece : Motorized Adjustment
Image File Form	Tiff File Format	Tiff File Format
Software	Windows Software	Windows Software
Dimensions	Approx. 2430mm(W)3400mm(D*2) 1750mm(H)	Depends on Specifications
Maintenance	Manual wiping (Special Wiping-Tool Included)	Auto Wiping •Auto Capping System
Safety System	Emergency Stop Switch · Door Interlock Mechanism	Emergency Stop Switch · Door Interlock Mechanism

*2: Including the dimensions of the carrying section.

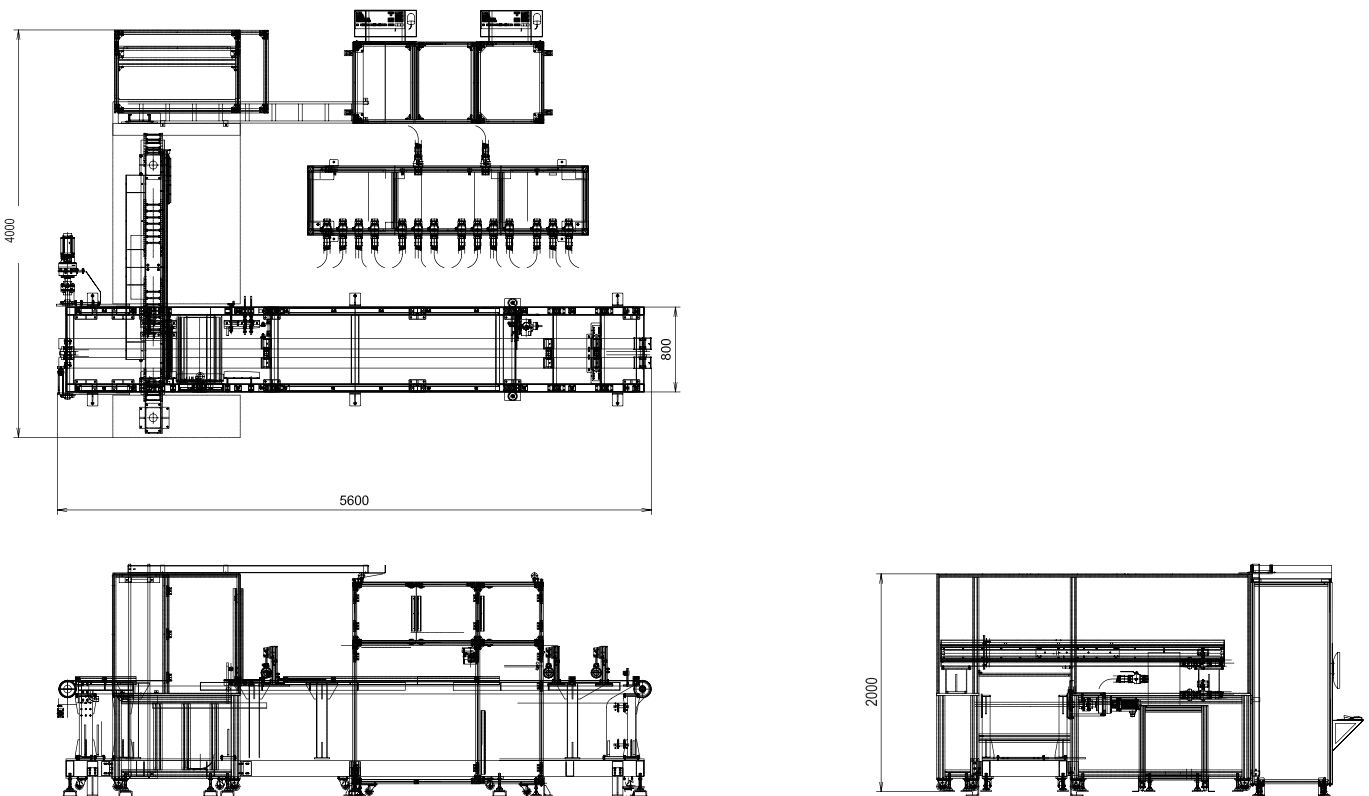
Please contact us to discuss your customization needs.

Kenzai JET External Size

【KenzaiJET Pro】



【KenzaiJET SuperPro】





<https://www.tritek.co.jp/>

Contact us

▶▶▶ **Tritek Co., Ltd.** Market Development dept. Sales group

931-35 Karuigawa, Kashiwazaki-city,
Niigata, 945-1355, Japan
Operation time : 8:30~17:30(weekday)

☎ 0257-24-7123 📠 0257-24-7550
🌐 <https://www.tritek.co.jp>