Z-TEC AUTOMATION SYSTEMS INC.

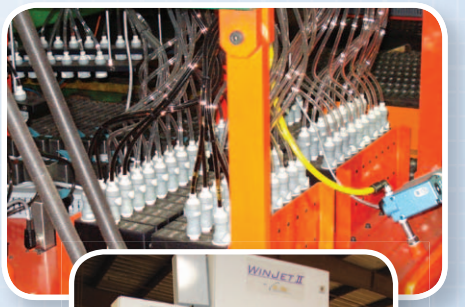
www.ztec.ca

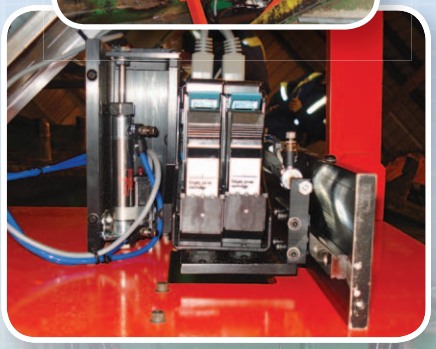
WinJet II

Digital Printing at Rubber Stamp Prices

What is WinJet II?

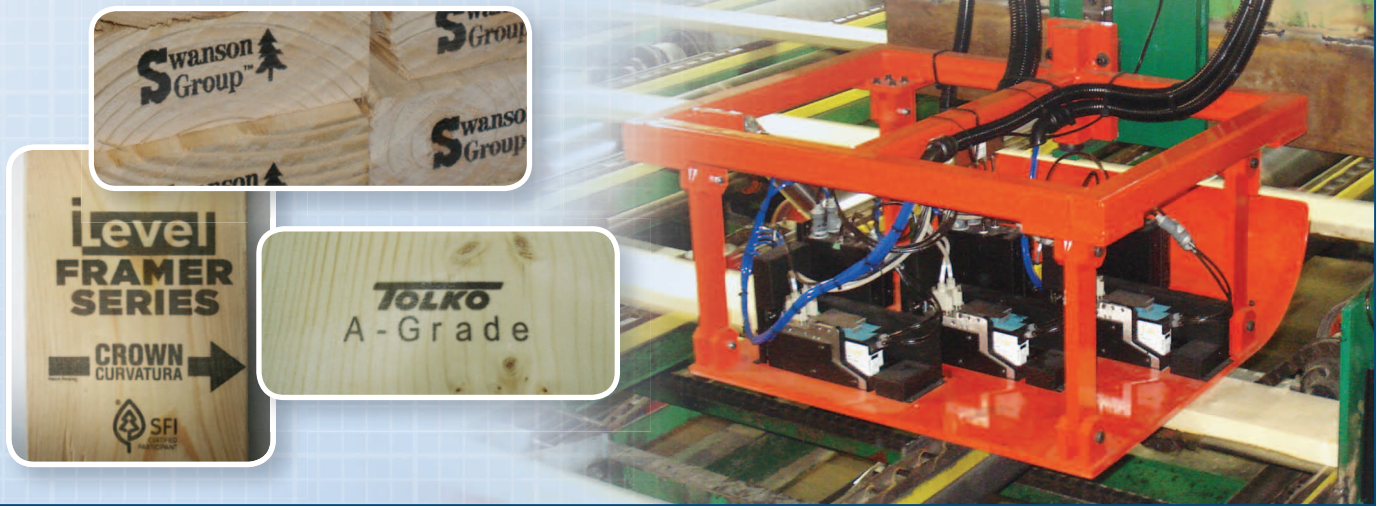
The WinJet II is the second generation of our original WinJet process control system that includes hardware and software for Ink Jet Printing, Barcode Application, and Vision Verification systems. The WinJet Printer replaces an existing rubber stamper with a cartridge based high speed digital ink jet printer, allowing for a high resolution, easy to maintain, customizable and dynamic printer. Optional barcode application and vision verification features enhance the WinJet Printing System to provide the functionality each customer requires.





Unique WinJet II features – *Not offered by other competitors

- WinJet II comes pre-assembled, pre-wired and pre-plumbed for a quick and easy installation*
- WinJet II can print 250 (300 at our facilities with unloaded PLC) distinct messages per minute*
- Custom developed Z-Ink specially formulated for wood products at lowest costs*
- Redesigned bulk ink system regulators significantly increase the life of bulk cartridges, resulting in dramatic decrease in operating costs*
- Integrated Capping Station caps ink cartridges in place while the printer is not being used, eliminating the need of removing and storing cartridges during down-time*
- Integrated Wiping Station wipes ink cartridges in the printer when print quality deteriorates due to dust or ink build-up*
- An integrated Air Knife clears incoming board of all dust and debris reducing maintenance*
- Redundant Grade Stamp feature allows the grade stamp to be swapped to another bank of print heads, minimizing downtime*
- WinJet II can be fully automated via a PLC, no operator PC or HMI necessary*
- 24hr / 7 days a week technical support available*
- Optional Integrated Camera Vision Verification*
- Optional Multi position ski allows various product thicknesses and easy servicing*
- Non-buffered system – What is sent is what is printed, with no chance of being out of sequence or losing product data
- Virtually maintenance free, resistant to harsh industrial environments



PRINTING SYSTEMS COMPARISONS	Z-TEC AUTOMATION SYSTEMS INC. WinJet II	Competitor "Grade Stamp Printer"	Competitor "HP Inkjet Printer"
Controller	Microcontroller	PC	PC
Operating System	PC104 real time kernel	Windows	Windows
Customer PLC Control[1]	Yes	No	No
Real-Time	Yes	No	No
Printing speed (pieces/minute)[2]	250+	200	200
Industrial Controls	Yes	No	No
Rugged Industrial Design	Yes	Yes	No
Expansion I/O	96 (expandable)	0	0
Ethernet / Serial Communication	Yes	Yes	Yes
User Input	Touch Screen/Kbd/Mouse	Kbd/Mouse	Kbd/Mouse
Local Station (at printer)	Yes	Yes	Yes
Multiple Remote Stations	Yes	No	No
Automatic Capping Station	Yes	No	No
Automatic Wiping Station	Yes	No	No
Buffered System[3]	No	No	Yes
Misprinting[4]	No	No	Yes
Ink	Custom Z-Ink	HP	Generic
Optimized Bulk Ink System Regulator[5]	Yes	No	No
Ink Costs	Medium	High	High
Ink De-cap time[6]	High	Medium	Low
Ink Contrast	High	High	Low
Ink water resistance	High	Medium	Low
Bulk Ink System	Yes - 800ml	Yes - 350ml	Yes - 1000ml
Ink Out warning	Yes	Yes	Yes
UL/CSA Certified	Yes	Yes	No
Vision System Option[7]	Yes	No	No
Air Knife system	Yes	No	No
Maximum No. of Printheads	Unlimited	4	12
Barcode Setup[8]	Yes	No	No
Optional Alarm Light Stack	Yes	No	No
Optional Display Marquee	Yes	No	No
24/7/365 Support	Yes	No	No

[1] Customer PLC can directly control WinJet II system:
- EtherNet/ IP (Allen Bradley PLC5 and ControlLogix compatible)
- Serial (RS232 and RS422)
- Modbus (Serial and TCP)
- Barcode Scanner (Scan for print message selection)
- Additional connection options implemented on request

[2] Subject to PLC communication speed and HP lineal speed limitations.

[3&4] WinJet II system is unbuffered, i.e. one board data set from PLC is sent just prior to printing without the need for a queue. In case of jam-up or a board not showing up, the information is over-written on the next lug, resulting in no possibility of mis-printed boards.

[5] Dramatically increases bulk cartridge life leading to reduced operating costs.

[6] Refers to the length of time the cartridge can sit without printing and re-starting printing without streaking or reduced print quality. Typically, the issue arises when line stops for coffee or lunch breaks or in between shifts.

[7] Optional vision system is used to monitor printing performance and the quality of print signalling when print quality falls below an adjustable level. Also useful to detect mechanical timing issues, such as a chain jumping one or more teeth on the sprocket.

[8] Barcode Reader can configure system from a pre-printed sheet of barcodes to prepare for printing.

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Providing Innovative Solutions Since 1992

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