

VUTEk r Series Safety Guide Addendum

Description:

This document describes important safety information and procedures to follow when operating VUTEk 3r and 5r printers. Also review OMM-00047, Inkjet Safety Guide, for additional safety information. Please complete an Operator Certification Class and review and follow all the safety precautions in this document before operating a printer.

Affected Printers:

EFI VUTEk 5r & 5r+, EFI VUTEk 3r & 3r+, EFI VUTEk D5r, EFI VUTEk D3r, Quantum 5, Matan 5, Quantum 3, Matan 3, QuantumFlex 3, QuantumFlex 5

VUTEK 3r & 5r Safety Guide Addendum

Use this Safety Guide in conjunction with the published EFI Inkjet Solutions' *Printer Safety Guide* when operating VUTEK 3r or 5r printers.

OMM-00146, Rev. A

Required Tools, Materials and Documents

Part/Doc Number	Description	Additional Information
OMM-00047	Inkjet Solutions Safety Guide	https://inkjet.support.efi.com/doc.php?doc=683

Revision History




8/30/2017	Rev. A	First revision	ReqID: 4269
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Procedural Summary





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1.0 Safety Label Legend

The following safety labels are affixed to the VUTEk 3r and 5r printers. Operators must read this section and understand these labels prior to operating the printers.

Label	Description
	<p>Indicates the Main Power Switch.</p>
	<p>Emergency Stop buttons. When pressed, will immediately stop printer activity.</p>
	<p>Do not touch any electrical component or wiring while the printer is On.</p>

	<p>Keep your hands clear of any moving parts while the printer is On.</p>
	<p>Keep your hands clear of the X-Axis Motor Assembly while the printer is On, as it generates significant heat.</p>
	<p>Keep your hands clear of all the Rollers and Shafts while the printer is operating.</p>
	<p>Keep your hands clear of all the Rollers and Shafts while the printer is operating. Keep your hands clear of the Hood when it is closing.</p>
	<p>Danger of UV radiation!</p> <p>Keep the Hood closed while the printer is working. Before servicing the UV lamps, allow them to cool down. When servicing the lamps, wear UV goggles that conform to international standards.</p>

	<p>Keep clear of the moving Carriage.</p>
	<p>Avoid contact between the Ink and your skin. Treat affected areas immediately.</p>
	<p>Avoid contact between the Ink and your eyes. Wear suitable protective goggles when handling the Inks.</p>
	<p>Do not operate the printer without proper site ventilation.</p>

2.0 Working with the VUTEk 5r/3r Printer

Please take the following precautions when working with the VUTEk 5r/3r printer in order to ensure your personal safety:

- All personnel are required to read and understand the User's Guide and be alerted to the potential hazards indicated by the safety labels before operating this machine.
- Only a trained and authorized person is to be permitted to service and operate this machine.
- Training should include instruction in operation under normal conditions and emergency situations.
- Never reach into the machine for any reason unless the machine is at a complete stop.
- Never leave the machine stopped in such a manner that another worker can start the machine while you are on or within the machine.
- Never change or defeat the function of electrical interlocks or other machine "shutdown" switches.
- Before starting this machine, check that: all persons are clear of the machine; the machine is free of paper scraps, wraps and jams.
- There is a potential hazard of entanglement in this machine caused by items such as long hair, loose clothing, and jewelry.
- Within 3 seconds of hearing the buzzer, keep at least 1 m away from the machine.
- Do not approach the printing area when the print head carriage is activated.
- The areas around loading and unloading points are to be kept clear of obstructions that could endanger personnel.
- Under no circumstances are the safety characteristics of this equipment to be altered.
- Routine inspections and corrective/preventative maintenance measures are to be conducted to ensure proper operation and safety.
- As a general rule, this equipment is not to be cleaned or serviced while in operation.
- Never look directly at the UV light source.
- You must always wear suitable anti-UV goggles that conform to international standards.
- Avoid smoking, eating, or drinking within the printer's Restricted Area.
- Follow the fire prevention precautionary methods described in this chapter
- Shut OFF the main power switch when servicing electrical components (AC power boxes or cables).
- While the printer is operating, stand at the workstation. Do not approach the printing area and keep hands clear of movable parts.
- While the printer is operating, certified operators and EFI field service engineers only are permitted in the restricted area.
- While loading and unloading heavy materials, make sure to wear steel-toed safety boots. Do not attempt to load or unload materials while the printer is operating.
- Do not operate the printer while under the influence of drugs or alcohol.

3.0 Additional Safety Information – Mechanical Hazards

3.1 Umbilical (Cable Chain)

The Umbilical (Cable Chain) carries all cables and pipes going from the PC and chassis to the Carriage. It moves continuously during the printing process along the chassis at a speed of up to 2.2 m/sec. Contact between the moving Carriage and a foreign object can cause a forceful impact and can cause an injury.

3.2 The Hood

The Hood protects the user from such dangers from the printer's front. The machine will not move unless the Hood is closed. Pressing one of the Emergency Stop buttons will stop the Carriage immediately; the flashing light and a buzzer are activated after a four second delay.

From the rear of the printer, this hazard is minimized by the flashing light and buzzer. In addition, pressing one of the Emergency Stop buttons along the rear of the printer will stop the carriage immediately. To minimize this hazard a number of warning labels listing the hit dangers are attached to the printer's back frame.

The Hood may injure a hand when closing. This hazard is minimized by:

- The five seconds it takes to close (from the time of a manual activation).
- By soft rubber protectors on its edge.
- By a flashing light and a buzzer which are activated before the Hood starts moving.