

MGI JETvarnish Series

MGI File Setup

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JETVARNISH 3D Series
Digital varnish & iFOIL



KONICA MINOLTA



Digital Technology

INDUSTRIAL DIGITAL PRINTING

*The material and training topics in this document are subject to updates and changes
Please consult with your Industrial Print Solutions Analyst or print provider for the most current version.*

PDF File Setup Guide:

- *The purpose of this document is to provide basic guidelines and requirements of the files required by the MGI JETvarnish equipment.*
- *This document is a basic guide. The main software applications mentioned in this document are the Adobe products. However, many applications and software solutions can be used to create the PDFs needed. Please consult your software provider for assistance if necessary.*

- The dimensions of the files ideally should match the dimensions of the printed sheets
 - Ex: If the printed sheets are 13X19in, the file dimensions should also be 13X19in. Additionally, if the final printed pieces contain imposition, the file that gets sent to the MGI RIP will need to be imposed as well. This will decrease setup time and waste on the press.

- The finished PDF files will contain the CMYK of the printed image as well as spot colors to designate foil and/or spot varnish
 - The CMYK of the printed piece is required for the registration system of the MGI

- Varnish/Foil masks should be tagged as the following **spot colors**
 - Foil —> **IFOIL**
 - Varnish —> **Varnish**

- Please contact your print provider if additional spot colors, such as a second foil, will be needed

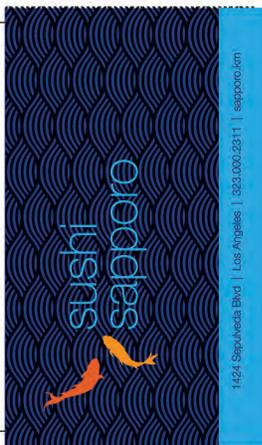
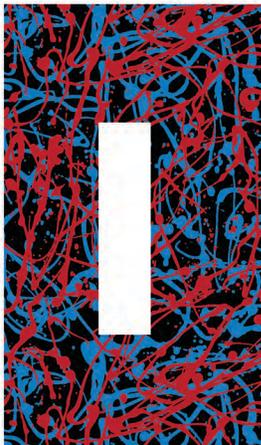
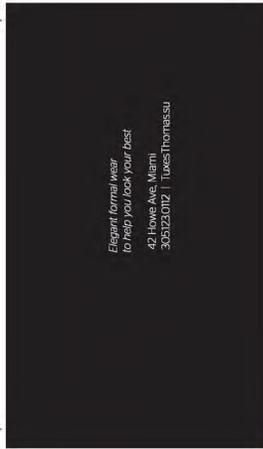
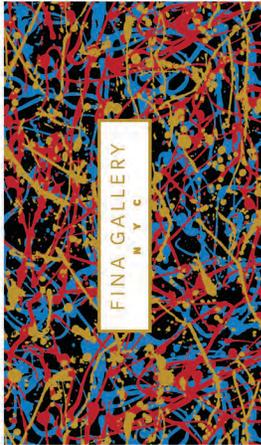
- The following page is an example of what a finished PDF could look like. It has been scaled down to fit the size of this document. This PDF can be opened in Adobe Acrobat and the spot colors can be seen through the output preview feature.

THIS IS PRESENTED TO

FOR BEING, FAR AND AWAY,
THE SMARTEST PERSON IN THE ROOM

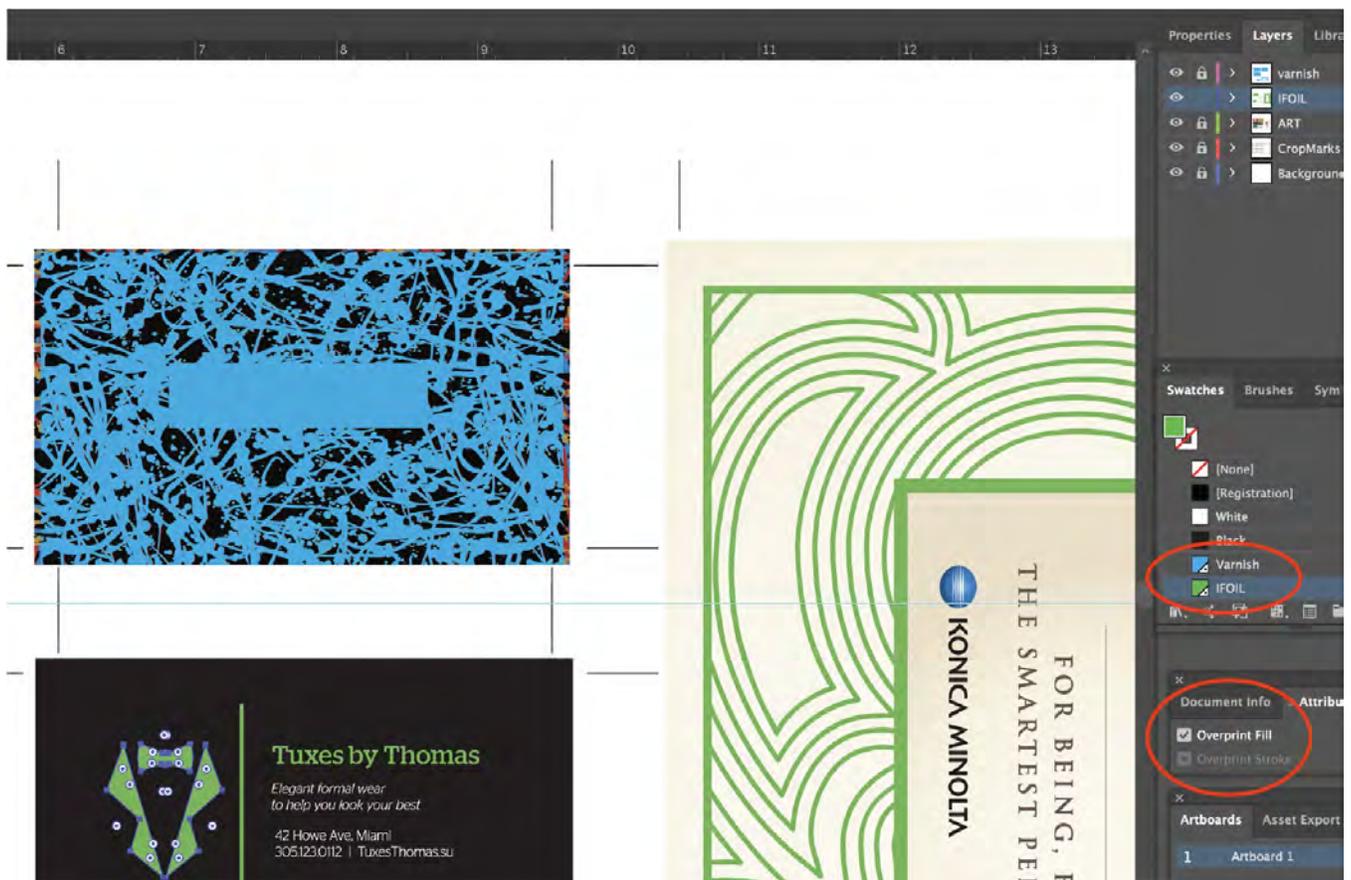


GRAPH EXPO 16



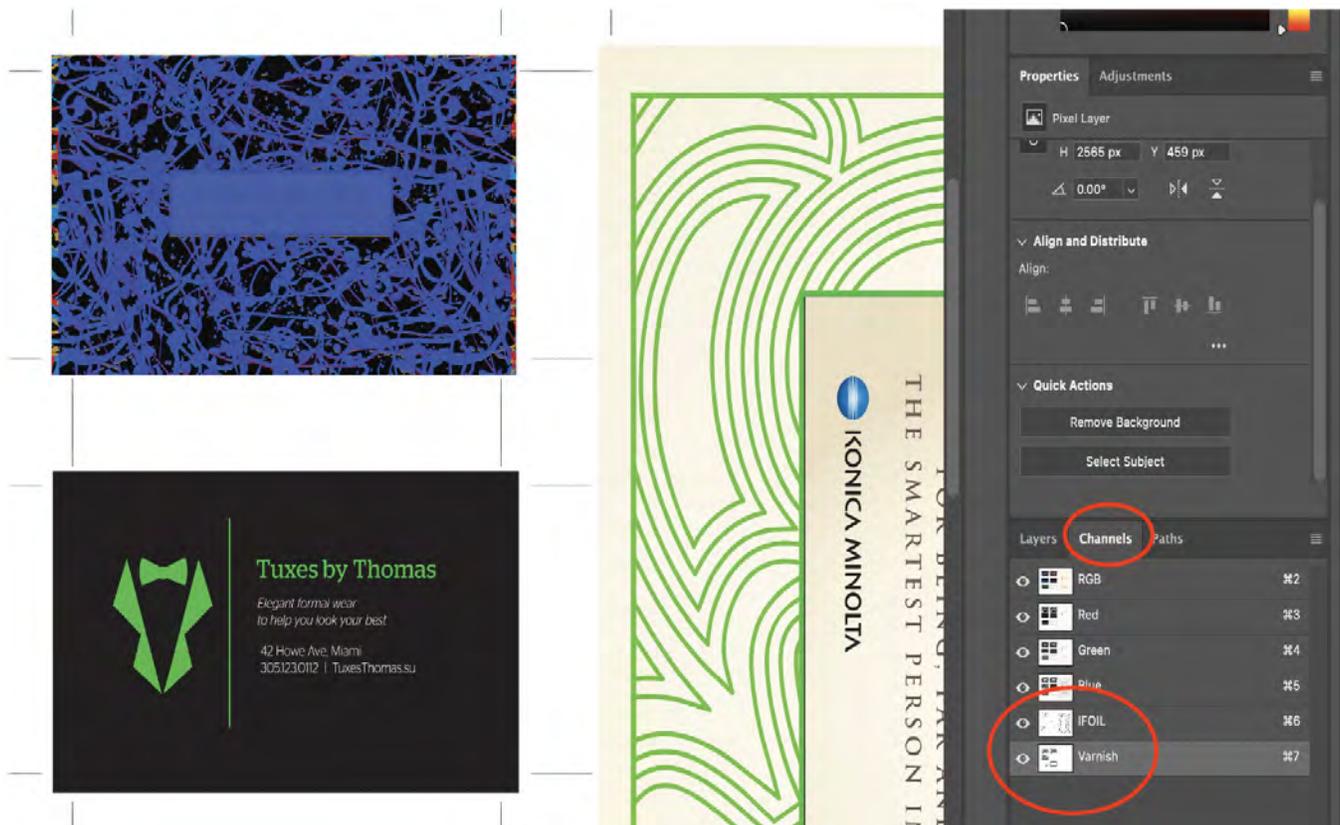
For Adobe InDesign/Illustrator:

- In Adobe InDesign and Illustrator, spot colors are used to define the foil and/or varnish mask. Spot colors can be created and saved to the color library
- The visual spot color does not matter, but make sure to set the fill % of the spot to 100, and set the fill and stroke of the spot color to overprint
 - If the spot colors are not set to overprint, there will be knockout areas in the CMYK print image. This can confuse the registration system on the MGI.
 - If opened in Acrobat Pro, the spot colors in the above sample file can be toggled on and off to see the overprint
- *The foil and/or varnish masks do not need to be on an extra layer, but it is recommended.*
- Spot colors in other layout and design programs may be applied similarly, but contact your software provider with any questions



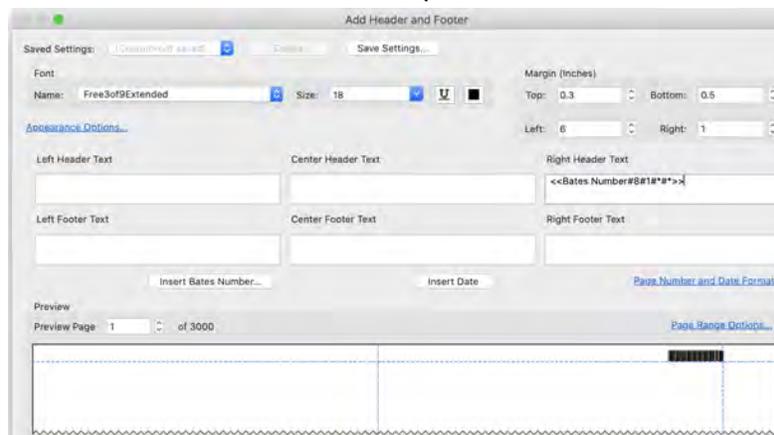
For Adobe Photoshop:

- In Adobe Photoshop, spot channels are used rather than spot colors
- Spot channels can be added in the channels tab near the layers dialog window
- When creating the spot channel, the name that is applied will need to be the same name as if they were spot colors.
 - For varnish, the spot channel should be called **Varnish**
 - For foil, the spot channel should be called **IFOIL**
- Be sure to set the solidity of the spot channel to 100%
- When a document with spot channels is saved as a PDF, the spot channels will act as a spot color and will automatically be set to overprint



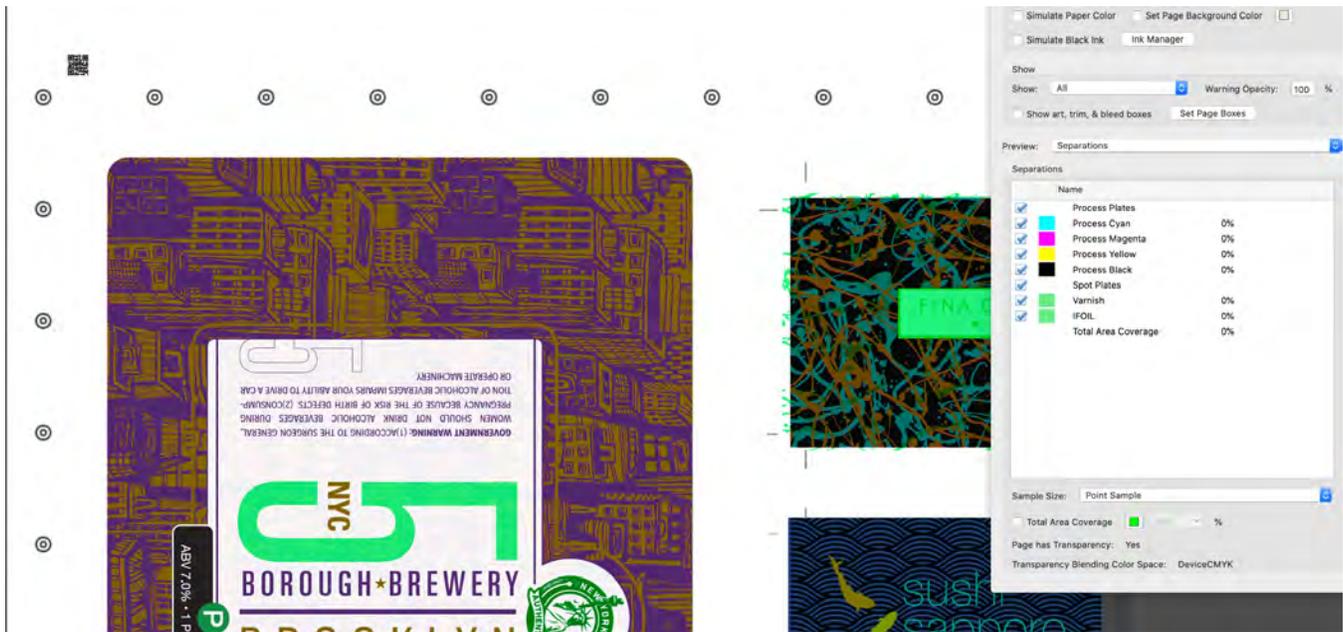
Variable Data Printing:

- For VDP applications, all principles above apply the same, but an added barcode or QR code may be required.
 - The code will essentially indicate the page number of the imposed, print PDF
 - A code is only necessary when both the varnish and/or foil application as well as the printed sheets are variable. If only the printed sheets are variable or only the varnish/foil is variable, then a code is not required to print on the JETvarnish
 - There are two methods of coding that can be used with the machine
- **Method 1 - Mode**
 - When using the simple code method, the code only needs to require the page number of the final print PDF.
 - This code should contain a set number of character for that page number
 - EX: 000001-001000 = OK
 - EX: 1-1000 = NOT OK
 - The code needs to be printed within the first two inches of the lead edge.
 - The code can be in the center or the corners of the lead edge, though it is recommended to put the code in the corner when possible
 - Many types of codes are accepted including Code 39, Code 128, EAN 13, QR code, Datamatrix, etc. Consult with KM workflow specialist if unsure what codes can be used
 - Many applications can add these codes. One simple method to add the code to the print PDF is through bates numbering in Adobe Acrobat Pro in conjunction with a barcode font. (See additional PDF on this method)



● Method 2 - Automatic Folder Selection

- This method is more complicated but beneficial for certain applications such as mailing and web-to-print application
- In this method, the code will contain the file name as well as a number indicating the page number of the PDF
 - EX: FILENAME000001-FILENAME001000 = OK
 - EX: FILENAME1-FILENAME1000 = NOT OK
- *Just like with the simple method, the page number within the code always needs to be the same number of characters. The reason for this is because on the JETvarnish software, the operator will need to tell the software to ignore a certain number of characters to find the file name. If the number of characters changes, such as between page 99 and page 100, the software will error.*
- This method also allows the user to stack multiple jobs on a pallet (as long as sheet size and print parameters on the JETvarnish will be the same) and print without needing to pause the machine in between.
- It will also another measure to insure that the proper files are being printed for each job
- These codes will also need to be within the first two inches of the lead edge, preferably on the corner. When using this method, it is also highly recommended to use a QR code.
 - Standard barcodes or usually too long when the filename is included
 - QR codes can contain all characters and can be very small. The smallest these codes can be is 0.25x0.25 inches or 6x6 mm
- Just as with the simple method, the code will need to be applied to the final print PDF. Only one code is required per sheet since its main objective is to indicate the page number of the print PDF.
- QR codes cannot be applied using the bates numbering feature in Adobe Acrobat Pro
- Please consult with your respective software providers to inquire about how best to add these codes.



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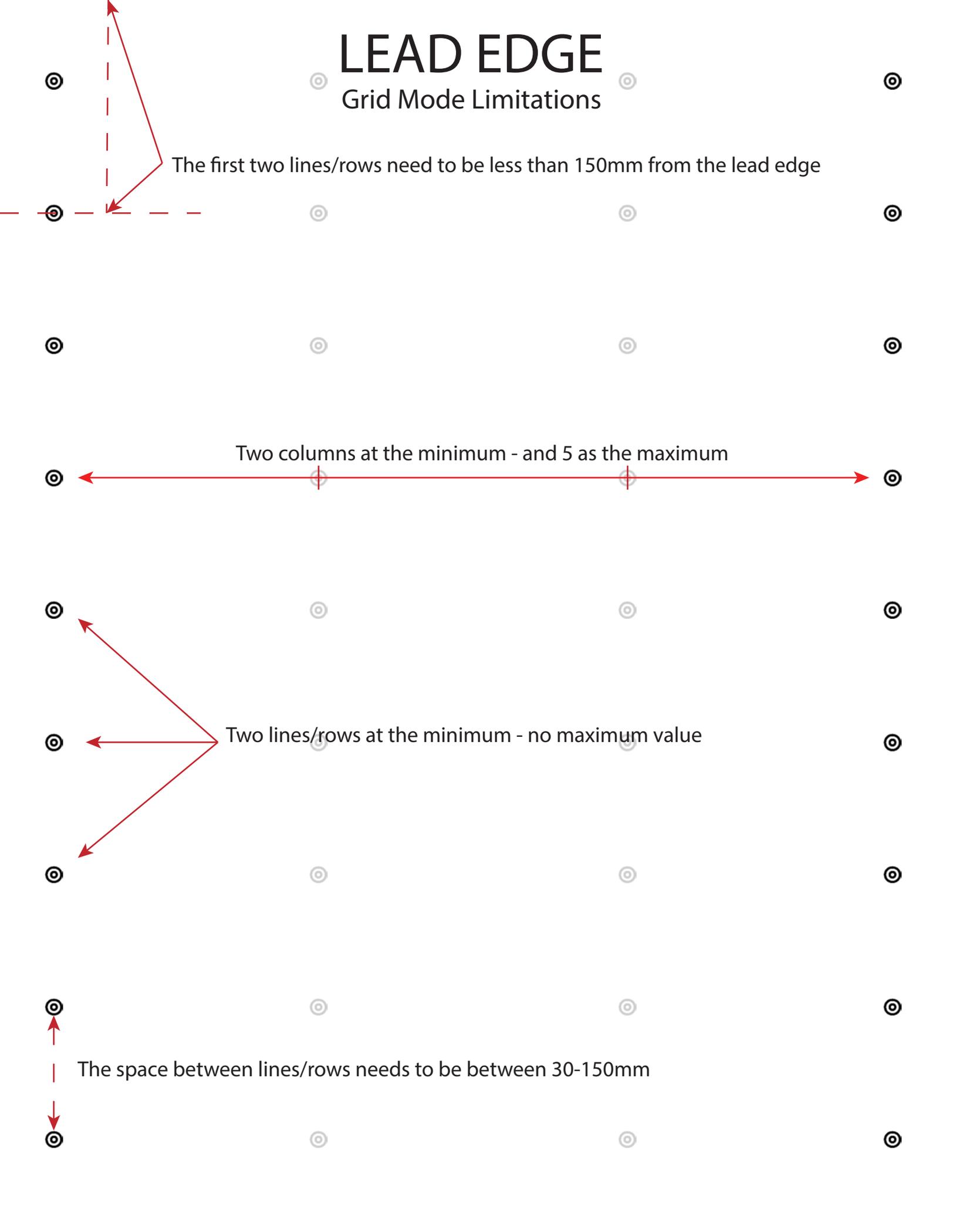
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LEAD EDGE

Grid Mode Limitations



The first two lines/rows need to be less than 150mm from the lead edge

Two columns at the minimum - and 5 as the maximum

Two lines/rows at the minimum - no maximum value

The space between lines/rows needs to be between 30-150mm