

**Professional
Imaging Technology**

Digital Guide

G

Griegeger

▶ General Information

Ordering

Please issue us with a written order that clearly indicates your desired specifications. This will ensure a punctual and proper performance of your order.

Specimen printout

Together with your order, please send a printout for comparison purposes. If you have authoritative colour specimens, we can make colour adjustments to the extent which is technically feasible. Charging will be done on the basis of time.

Data media

We can read the following data media:

DVD, CD-ROM (if possible, please burn in ISO 9660 format so that the CD can be read by both PC and Mac). Data transfer from FireWire or USB hard disks is possible.

Data transfer

● FTP

Please contact us to set up access.

● E-mail

Please see the rear cover of this brochure for the e-mail addresses.

Programs – data formats

All files made using the following programs can be digitally processed by Grieger.

QuarkXPress (version 6.52), Adobe Photoshop, InDesign and Illustrator by Creative Suite CS3 and CS4.

It is also possible to output the file formats **EPS, TIFF, JPEG, PS** or **PDF**. In such cases, however, you should contact us first since a few peculiarities must be noted!

In the case of PDF files, only very limited colour corrections are possible. Transparencies must already be reduced. Please note the enlargement scale in this case! All of the colours used must come from the colour space "ISOcoated_v2_eci" or "ECI-RGB.V1.0"!

Fonts

Our RIP processes all PostScript Level 3-compliant fonts. The most common fonts are held in our font library. Should you use other fonts, please supply us with all the character sets used in the document (print and screen character sets).

Imported data

Please enclose all the graphics, images and logos used in your layout with the corresponding original files since otherwise no corrections can be made! Please create the graphics without overflow and overprinting. The colour profiles used must be embedded!

Direct printing on plate/Finishing

We need different trims depending on the type of printing and finishing.

In the case of direct printing on plates: circumferential 2 mm.

For cutting of roller material: circumferential 1 mm.

Should your image be laminated on a support material, we will require at least 5 mm circumferentially.

Processing in accordance with our Diasec® method requires at least 10 mm circumferentially.

In the case of materials for use in light boxes, your motif should have sufficient trim up to the gross scale.

If no trim is created in your file, we will have to output the image slightly larger which can result in potentially important elements of the image having to be cut away!

▶ Ultrachrome Ultrachrome LF

Printing process

Ultrachrome:

Piezo Inkjet print with UV-cured inks.
Frequency-modulated screen in CMYK mode.

Ultrachrome LF:

Piezo Inkjet print with solvent-based inks.
Frequency-modulated screen in CMYK mode.

Paper width

Up to 250 cm (paper rolls).
Plates up to a thickness of 40 mm and size 250 x 600 cm (plates only with Ultrachrome!)

Colour space CMYK

All the colours used in your files should be defined as CMYK colours. Spot colours can be created as Pantone or HKS-K. These colours will then be recalculated via a special table within RIP into 4C, optimized for the inks being used. Please note the paragraph on "Colour Management at Grieger" on the rear cover!

Resolution

Print resolution = 600 dpi / 720 dpi. Scanned pictures should have a resolution of at least 150 dpi in the end format.

The prices stated in our price list refer to rip-compatible files. To save you costs and time, your files should be as follows:

File size

Please, where possible, create your files in the final size at a resolution of 150 dpi. If this is not possible, please in 1/10.

Example:

End size of the Scanposter print:

120 cm x 100 cm.

File dimensions:

12 cm x 10 cm.

Definition: 1500 dpi.

Mode: CMYK.

On this basis, the file has a size of 160 MB.

Maximum file size

With formats > 10 m², a definition of 72 dpi is sufficient. Higher resolutions do not bring any quality improvement.

Minimum file size

If the resolution of the images used is below 50 dpi in the final format, pixel structures can be visible in the printout!

▶ **Jetposter®**

Printing process

Inkjet print with pigmented UV-resistant inks. Further processing is needed to make the printouts wipe-proof and weather resistant. Specific outdoor materials are an exception here. Frequency-modulated screen in CMYK mode.

Paper width

150 cm (up to 110 cm with FineArt).

Paper grades

Standard matt coated 170 g, photopaper 200 g and 260 g. Various FineArt materials, Backlight, Canvas. Other materials on request.

Colour space CMYK

All the colours used in your files should be defined as CMYK colours. Spot colours can be created as Pantone or HKS-K. These colours will then be recalculated via a special table within RIP into 4C, optimized for the inks being used. Please note the paragraph on "Colour Management at Grieger" on the rear cover!

Resolution

Print resolution = 1200 dpi.

Scanned images should reach 150 dpi (300 dpi with FineArt) resolution in final format. Higher resolutions do not lead to improved quality.

The price indications in our price list apply to rip-capable files. To save you time and costs, you should set up your files as follows:

File size

Image size in 100% with resolution of 150/300 pixels per inch at final size.

If this is not possible, create image size 1:10 to final format.

Example: Final size of Jetposter print: 120 cm x 100 cm.

Set up file: 12 cm wide x 10 cm high.

Resolution: 1500/3000 dpi.

Mode: CMYK.

This produces a file size of 160/640 MB.

Minimum file size

If the resolution of the images used is below 50 dpi in the final format, pixel structures can be visible in the printout!

▶ **Laserchrome®**

Products

Laserchrome print, Laserchrome multiprint, Laserchrome paper, Laserchrome slide – opal or clear.

Printing process

Continuous tone laser exposure (Durst Lambda or Océ LightJet) on photographic materials.

Paper width

Up to 180 cm (rolls).

Paper grades

Semi-matt and glossy photopaper, clear and opal slide materials.

Colour space RGB

All shades used in your files should be defined as RGB colours. Spot colours will be simulated in exposure by the basic photographic colours red, green and blue. All files will be colour-corrected by our colour management.

Do **not** convert existing CMYK files in RGB files!

Please refer to the section "Colour management at Grieger" on the back page of this brochure.

Definition

Laserchrome is exposed without screening at 200 ppi, 300 ppi or 400 ppi. The prices quoted in our price list refer to exposable files. To save you costs and time, your files should be produced as follows:

File size: Picture size proportionate to the end format with the desired resolution. Mode: RGB. Please refer to the section "Colour management at Grieger" on the back page of this brochure.

Examples of optimum file sizes:

Print size	200 ppi	300ppi	400 ppi
DIN A6	2,8 MB		11,4 MB
13 x 18 cm	4,1 MB		16,5 MB
DIN A5	5,5 MB		22,0 MB
20 x 25 cm	9,0 MB		35,5 MB
DIN A4	11,0 MB		44,3 MB
DIN A3	22,0 MB	49,8 MB	
50 x 60 cm	53,0 MB	119,8 MB	
60 x 80 cm	85,0 MB	191,6 MB	
100 x 100 cm	113,0 MB	277,6 MB	
100 x 150 cm	150,0 MB	415,8 MB	
120 x 200 cm	208,0 MB	515,1 MB	
200 x 200 cm	255,0 MB	709,5 MB	
200 x 300 cm	322,0 MB	800,0 MB	

▶ **Colorama 2000** Inkjet displays

Colorama 2000

For all inkjet displays, we require CMYK data according to Euroscale "ISOcoated_v2_eci" with a resolution of 50 dpi for the end size.

For high-resolution prints, a resolution of 100 dpi for the end format is necessary.

To achieve optimum print results, a colour specimen is recommended.

▶ **Colour management at Grieger**

As standard we use a colour management system with our output devices. So it is decisive for us that the data you deliver contains embedded ICC profiles of your company colour space and information on your separation settings.

For RGB, for example, we use the **ECI-RGB V1 colour space** and **ISOcoated_v2_eci** for CMYK.

Download at: www.eci.org

Should your data files not contain ICC profiles, we will assign one to the colour space. Experience shows that this can lead to undesirable results.

By recalculating ICC profiles we can produce practically identical results on the various output devices.

A colour sample, however, is still the safest way to communicate colours as binding.

Questions about colour management?

Talk to us! We can also put you in touch with service providers who can dimension your workflow to conform to ICC.

Grieger

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