Large Format Printing at SCC

Jobs ≥A3 are sent to the "**Normal-**" (coated, 135 g/m²) or "**Fotopapier**" (semi-gloss, 200 g/m²) large format printers ("LFP") (720 dpi *EFI*-RIP) at CS and CN using **webPRINT**.
☞ scc.kit.edu/webprint

Access from outside the KIT-net only via VPN:
☞ scc.kit.edu/vpn

Prerequisites & Specifications

The printers are activated for KIT employees and, after consultation with the host OU, also for "Guests & Partners". Students can only print at Campus South.

If an account is reassigned (change of status/OU), the LFPs may no longer be displayed in the printer selection. In this case, the password must be reset and the password saved in the browser must be deleted.
☞ my.scc.kit.edu ▷ „Aktivation"

- File format: PDF
- File size/upload volume: max. 500 MB
- Number of pages in PDF: 1
- Length of the short edge: max. 890 mm
- Paper size and page layout must be specified in the PDF. webPRINT does not offer scaling and layout options!
- Retention period for posters: 1 month

PDF creation & print options

⚠ **Our recommendations for PDF creation, font embedding, page layout and paper size require a PDF printer! When created with "Save As" / "Export"** or *Microsoft Print To PDF* they **cannot** be implemented and PDFs created this way often cause problems!
All tips in turquoise: only with a PDF printer!
☞ scc.kit.edu/pp-pdfdrucker

A) TrueType font embedding:

⚠ **This important option should always be set! It embeds the vector information of the fonts in the PDF, so that the printout has the desired typeface at any given printer:**
"Print" ▷ *your PDF printer* ▷ "Properties" ▷ "Advanced…" ▷ "Graphic" ▷ "TrueType Font": "**Download as Softfont**"
☞ "Change print options permanently" (s. reverse side)

B) Correct paper sizes

- **A3** is only useful for LFP when printing without margins, otherwise use the A3/A4 central printers.

- **Paper sizes <A3** (297x420 mm) are aborted after upload ("Fehler@Download").

- **Document size and paper size** should be the same. Info about the document size in *Adobe Reader:* "File" ▷ "Properties…" ▷ "Description": "**Page Size**". If necessary, adjust the document size to the desired paper size with a new PDF (☞ **C** 4). Typical A formats:

  - A0: 841 x 1.189 mm
  - A1: 594 x 841 mm
  - A2: 420 x 594 mm
  - A3: 297 x 420 mm

C) Multiple copies of a project/motif

…can be printed more **cost-effectively** by "tiling" the project/motif on a single page (optimal paper usage, only one header and footer for multiple copies)! The following description shows how to create a PDF for 8 portrait orientated A2 poster copies:

Note: 8 A2 copies result in a just manageable paper length of 2.4 m. For more copies, send the PDF with "Exemplare" (copies): "2" in webPRINT. For smaller projects/motifs you can increase the number of tiles on 1 page.

1) Create the project in A2. *A thin gray frame (420x594 mm) around the project facilitates the later cutting of the tiles.*

2) Considering **A)** (see above) create **8** individual A2 PDFs from the A2 project.

3) Merge the **8** PDFs into **one 8-page** PDF using *Adobe Reader* or similar.

Now create the **1-page** PDF for webPRINT. Considering **A)** in the "Print" menu of the PDF printer, do…

4) **Set paper size:** "Print" ▷ "Properties" ▷ "Advanced…" ▷ "Paper/Output" ▷ "Paper size" ▷ "PostScript Custom Page Size" ▷ …
   - ▷ "Width": "**841.00**" mm
   - ▷ "Length": "**2376.00**" mm (multiple of 594 mm; depends on number of rows for your tiles (copies))
   - ▷ "Paper feed direction": "**Long Edge First**"

5) **Set tiles**: "Print" ▷ …
   - ▷ "Page Sizing & Handling": "**Multiple**"
     - "Pages per sheet": "**2x4**"
     - "Page order": "**Horizontal**"
     - "Orientation": "**Portrait**"

Note about PDF printers

PDF Printer

The modern functions for PDF creation ("Save as", "Export") are fast and convenient. However, they do not allow you to influence the quality of the printed image via print options. In addition, PDFs created in this way are less portable/compatible!

Important PDF documents should only be created with PDF printers. Recommendations for Windows, Mac and Linux:

☞ scc.kit.edu/pp-pdfdrucker

Change print options permanently

Under Windows: Click " ▦ " and type "Printers & scanners", open the suggested application. Select in the new window: *Your PDF printer* ▹ "Manage" ▹ "Printing preferences" ▹ "Advanced…" ▹ "Grafic" ▹ "True-Type Font": „**Download as Soft-font**" „OK"…

Embedded photos/graphics

Large formats are rasterized ("RIP") with **720 dpi**. Photos/graphics should be adjusted to the desired print image size in relation to this resolution and then embedded. The adjustment is quickly done with e.g. *IrfanView* and saves a lot of RIP time/PDF data volume: *IrfanView* ▹ "**i**" or "Image" ▹

"Information…": Enter resolution and click „Change". "Print size (from DPI)" indicates object size in cm. Adjust object with "Image" ▹ "Resize/Resample".

JPG artifacts: On the monitor seemingly white/clean **JPG/JPEG objects** show dirt clouds around text and other high-contrast borders in the printed image… Already consider when creating images: JPG/JPEG only for photorealistic images, **graphics only as PNG!**

More Informations

PDF printers ☞ scc.kit.edu/pp-pdfdrucker
P&P home p. ☞ scc.kit.edu/printundplot
Job status ☞ scc.kit.edu/pp-status
FAQ & **Flyer** ☞ scc.kit.edu/pp-faq

Contact

Karlsruhe Institute of Technology (KIT)
Scientific Computing Center (SCC)

Print & Plot
Zirkel 2, 76131 Karlsruhe

📞 0721 608-43344
✉ printundplot@scc.kit.edu
🌐 scc.kit.edu/printundplot

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