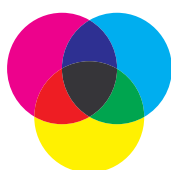


Digital printing

In the digital printing process, we apply your motif directly to the reusable cup, without a carrier material or stencil. This enables cost-efficient and time-saving production, even in small quantities.

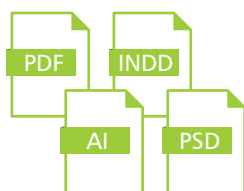
The following types of motifs are possible:

- Photo-realistic motifs
- Cup wrap motifs
- CMYK or RGB colour compositions



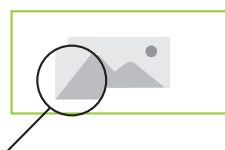
Colour

- The print file should be in **CMYK** or **RGB colour** format.
- Pantone or similar colour systems may not be used.
- Gradients, effects and cast shadows that transition into transparency are not possible.
- A white background is printed under the coloured motif to ensure bright colours on the cup. A **“White” level as spot colour** is to be created:
 - When orders are placed via the Cup Designer configuration tool, white is automatically created as a spot colour.
 - **Please note:** The “White” level must be above the printed image. The attribute “Overprint surface” must be activated. It can be depicted in another colour in the program, but it will be printed in white.
- Special aspects of CMYK colour composition:
 - **Black** must be created in CMYK.



File size & file format

- Image size varies based on cup type and size; consult the **Print Image Sizes** table for dimensions
- The dimensions are to be created **1:1 in accordance with the table** containing the image sizes.
- **No bleed** should be taken into account.
- The printed image is to be created as a **rectangle** – not curved. we will perform the bounding for you.
- Printing data must be submitted in one of these file formats:
 - At least open PDF X/4 with high print quality
 - Illustrator (.ai)
 - Photoshop (.psd)
 - InDesign (.indd)
- The printing data can be sent via wetransfer: <https://wetransfer.com>



Resolution of images and graphics

- Use **graphic elements** (e.g. logos) as **vector graphics**
- Use **text in vector graphics**. Alternatively, you can also create these with at least 900 dpi.
- Resolutions of **images and photos** – at least **300 dpi**

Aa

Lettering

- Lettering should have a height of **at least 3 mm**. This corresponds to around 12 pt in Arial.
- All lettering is to be converted into **paths** or **embedded fonts**.



Lines

- In order to ensure that **positive line thickness** can be seen clearly, they should not be smaller than **0.3 mm or 1 pt.**
- In the case of **negative line thickness**, the lines should not be smaller than **0.4 mm or 1.5 pt.**

0,3l

Fill lines

- Each cup has a **fill line etched into it**. The selected cup size indicates the fill line – for example Design Cup 0.3 l has an etched fill line at 0.3 l.
- The etched fill line can be supplemented by **two additional fill lines** printed onto the cup.
- A printed **fill line** needs to have a width of **14 mm and is printed transparently**. (see Image 1)
- Additionally printed fill lines may display a position deviating from the etched fill line. (see Image 2)



Tips and information

- If you order from the online shop, your printing data is always given a data check free of charge. You can also request a professional data check for €9.50.
- Complaints will not be accepted with regard to certain production characteristics. Depending on the motif in question, the following can occur to varying degrees:
- In the event of nozzle failure, there may be streaking.
 - Tool-edge impressions may occur in the area of the stacking grooves. These impressions will appear as a running colour stain on the lower part of the cup.
 - Small dots may be visible on single-colour surfaces; these are print drops from the ink. (see Image 3)
 - During printing, two printheads overlap, which leads to the formation of a 2-mm line (see Image 4)
 - For technical reasons, the colors on screens may differ from the colors on the cup.
- Depending on the season and the order situation, actual delivery times may deviate from the times posted on the website.



Image 1



Image 2



Image 3



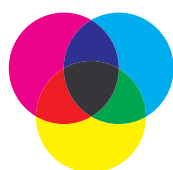
Image 4

Screen printing

With screen printing, the ink is printed on the cup by pushing it through a fine screen. This enables a precise and long-lasting ink application, which is ideal for achieving high-quality permanent printing on reusable cups.

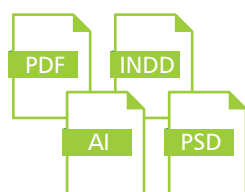
The screen printing technique is ideal for:

- Logos
- Lettering
- Illustrations
- Motifs with special colours



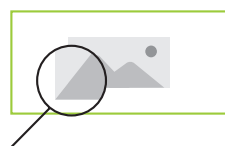
Colour

- The file is to be created with **4 special colours plus white**.
 - In the case of motifs with more than four special colours, we will be happy to put together an offer for you.
- The following cups are only available in a single color:
 - Wine cup
 - Wheat beer glass
 - Long Drink cup
 - Shotcup (depending on the design, 2-colours are possible)
 - Champagne flute
 - Sparkling wine cup
- Special colours are to be defined on the basis of the **HKS K or Pantone Solid coated C** colour assortments.
- The **colours gold and silver** can also be printed.
- To ensure very good image resolution and high print quality, we work with **halftones 28 to 36**.
- Graphic elements and surfaces are **not back-printed white**. These are to be specified as a 5th special colour with a low chroma and clear lettering.
- Gradients, effects and cast shadows that transition into transparency are not possible.



File size & file format

- The size of the printed image varies depending on the type of cup and its size. You will find all dimension values in the **Print Image Sizes** table.
- The dimensions are to be created **1:1**.
- **No bleed** should be taken into account.
- The printed image is to be created as a **rectangle** – not curved. We will perform the bounding for you.
- The printing data are to be sent in one of the following file formats:
 - At least open PDF X/4 with high print quality
 - Illustrator (.ai)
 - Photoshop (.psd)
 - InDesign (.indd)
- Send printing data via wetransfer: <http://wetransfer.com>



Resolution of images and graphics

- Use **graphic elements** (e.g. logos) as **vector graphics**.
- Resolutions of **images** – at least **600 dpi**
- Resolutions of **texts** as **vector graphics**. Alternatively, you can also use these with at least **1200 dpi**.

Aa

Lettering

- Lettering should have a **height of at least 3 mm**. This corresponds to around 12 pt in Arial.
- All lettering is to be converted into **paths** or **embedded fonts**.



Lines

- In order to ensure that **positive line thickness** can be seen clearly, they should not be smaller than **0.3 mm or 1 pt**.
- In the case of **negative line thickness**, the lines should not be smaller than **0.4 mm or 1.5 pt**.

0,3l

Fill lines

- All cups (except: Cocktail Cup) have a **fill line etched into it**. The selected cup size indicates the fill line.
- The etched fill line can be supplemented by **two additional fill lines** printed onto the cup.
- A printed **fill line** needs to have a width of **14 mm**. This is to be taken into account in the design of motifs.



Tips and information

- If you order from the online shop, your printing data is always given a data check free of charge. You can also request a professional data check for €9.50.
- For technical reasons, the colors on screens may differ from the colors on the cup.
- Depending on the season and the order situation, actual delivery times may deviate from the times posted on the website.

IML photo printing

The in-mould labelling (IML) technique is a high-quality printing method. With this method, labels are inserted into the cup mould during the cup production process itself. The label then fuses with the plastic, which results in a seamless and long-lasting finish.

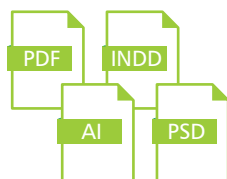
IML photo printing is suitable for use with:

- Photographs
- Motifs with many colours
- Cup wrap motifs
- Top-quality printing



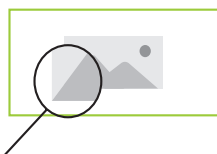
Colour

- The file for printing is to be created in **CMYK colour composition plus white**.
 - If special colours are to be used, these should be indicated in Pantone or RAL. In this case, we will be happy to put together an offer for you.
- For vibrant cup colours, all filled elements and surfaces should be back-printed white, except transparent elements. For dark or highly colourful cups, consider double white back-printing for optimal colour brilliance.
- Gradients should be used sparingly, but are possible. Here, we will check your printing data before any further action is taken.



File size & file format

- The size of the printed image varies depending on the type of cup and its size. You will find all dimension values in the **Print Image Sizes** table.
- The dimensions are to be created 1:1 **in accordance with the table** containing the image sizes.
- **No bleed** should be taken into account.
- The printed image is to be created as a **rectangle** – no curved. We will perform the bounding for you.
- The printing data are to be sent in one of the following file formats:
 - At least open PDF X/4 with high print quality
 - Illustrator (.ai)
 - Photoshop (.psd)
 - InDesign (.indd)
- The printing data can be sent via wettransfer: <https://wettransfer.com>



Resolution of images and graphics

- A circumferential **3-mm wide unprinted edge** is needed for **firm bonding of printing foils and laminating film**. This is visible above and below and to the left and right of the printed image. When the left and right side of the images come together, there will be an unprinted gap of approx. 10 mm.
- Use **graphic elements** (e.g. logos) as **vector graphics**.
- Use resolution of **texts as vector graphics**. - Alternatively also with at least 900 dpi.
- Resolutions of **images and photos** – **at least 1200 dpi**

Aa

Lettering

- Lettering should have a height of **at least 3 mm**. This corresponds to around 12 pt in Arial.
- All lettering is to be converted into **paths** or **embedded fonts**.
- If lettering is to be back-printed white, it needs to be correspondingly larger, as the white back-printing will be at least 0.2 mm smaller.



Lines

- In order to ensure that **positive line thickness** can be seen clearly, they should not be smaller than **0.2 mm or 0.5 pt**.
- In the case of **negative line thickness**, the lines should not be smaller than **0.3 mm or 0.8 pt**.
- If lines are to be back-printed white, they need to be correspondingly larger, as the white back-printing will be at least 0.2 mm smaller.

0,3l

Fill lines

- Each cup has a **fill line etched into it**. The selected cup size indicates the fill line.
- The etched fill line can be supplemented by **two additional fill lines** printed onto the cup.
- When a fill line is printed, there needs to be an unprinted edge; **otherwise** the fill line will be integrated into the motif. (see Image 1) The unprinted edge ("drinking gap") can be extended to as much as 20 mm. (see Image 2)



Tips and information

- If fill lines are placed on the drinking gap, the printed image will be smaller. This should be taken into account in the design of motifs.
- In the case of cups with handles (Arena Cup, Event Cup, Super Cup), no important elements may be placed in the left and right upper corners of the motif. These areas need to be kept empty for the handle. (see Image 3)
- For technical reasons, the colors on screens may differ from the colors on the cup.
- Depending on the season and the order situation, actual delivery times may deviate from the times posted on the website.
- If you order from the online shop, your printing data is always given a data check free of charge. You can also request a professional data check for €9.50.



Image 1



Image 2



Image 3

Print Image Sizes – Cups

Please create your print motif in the sizes shown here for the different types of cups and their sizes. No bleed margin or print registration information is necessary.

Cup	Type	Size	Screen printing		IML photo printing		Digital printing	
			Width	Height	Width	Height	Width	Height
Allround Cup	transparent	0.2 l	201.5 mm	35.0 mm	-	-	-	-
Allround Cup	transparent	0.3 l	213.5 mm	60.0 mm	-	-	-	-
Allround Cup	transparent	0.4 l	213.5 mm	80.0 mm	-	-	-	-
Arena Cup	transparent	0.5 l	125.0 mm	90.0 mm	226.8 mm	135.0 mm	-	-
Vending machine Cup	coffee / black	0.18 l	163.0 mm	60.0 mm	-	-	-	-
Champagne flute	crystal clear	0.1 l	180.0 mm	25.0 mm	-	-	-	-
Cocktail Cup	crystal clear	0.3 l	242.0 mm	35.0 mm	-	-	-	-
Design Cup	transparent / crystal clear / glitter	0.1 l	151.0 mm	42.0 mm	-	-	-	-
Design Cup	transparent	0.2 l	180.0 mm	55.0 mm	174.3 mm	106.5 mm	199.2 mm	89.2 mm
Design Cup	transparent	0.25 l	188.5 mm	70.0 mm	183.8 mm	117.7 mm	213.4 mm	101.0 mm
Design Cup	transparent	0.3 l	201.5 mm	75.0 mm	194.9 mm	121.7 mm	224.1 mm	107.0 mm
Design Cup	transparent	0.4 l	220.0 mm	85.0 mm	213.2 mm	133.5 mm	245.1 mm	118.2 mm
Design Cup	transparent	0.5 l	229.2 mm	90.0 mm	223.9 mm	146.5 mm	257.4 mm	132.5 mm
Design Cup	crystal clear / glitter	0.2 l	180.0 mm	55.0 mm	-	-	-	-
Design Cup	crystal clear / glitter	0.25 l	188.5 mm	70.0 mm	-	-	-	-
Design Cup	crystal clear / glitter	0.3 l	201.5 mm	75.0 mm	-	-	-	-
Design Cup	crystal clear / glitter	0.4 l	220.0 mm	85.0 mm	-	-	-	-
Design Cup	crystal clear / glitter	0.5 l	229.2 mm	90.0 mm	-	-	-	-

Cup	Type	Size	Screen printing		IML photo printing		Digital printing	
			Width	Height	Width	Height	Width	Height
Event Cup	transparent	0.3 l	110.0 mm	70.0 mm	-	-	-	-
Event Cup	transparent	0.4 l	120.0 mm	80.0 mm	-	-	-	-
Event Cup	transparent	0.5 l	130.0 mm	85.0 mm	-	-	-	-
Event Cup	transparent	1.0 l	180.0 mm	95.0 mm	-	-	-	-
Hot to Go Cup	mint / coffee / black	0.2 l	201.0 mm	40.0 mm	237.6 mm	53.9 mm	-	-
Hot to Go Cup	mint / coffee / black	0.3 l	201.0 mm	69.0 mm	240.4 mm	83.4 mm	-	-
Ice Cup	frosted	0.3 l	201.5 mm	75.0 mm	-	-	-	-
Long drink Cup	crystal clear	0.2 l	157.0 mm	85.0 mm	-	-	-	-
Pitcher	transparent matt	1.5 l	50.0 mm	110.0 mm	-	-	-	-
Sparkling wine Cup	crystal clear	0.1 l	163.3 mm	30.0 mm	-	-	-	-
Shot Cup	transparent / crystal clear	0.04 l	105.0 mm	25.0 mm	-	-	-	-
SL Cup	transparent	0.25 l	-	-	227.8 mm	73.3 mm	-	-
SL Cup	transparent	0.3 l	-	-	227.8 mm	81,4 mm	-	-
SL Cup	transparent	0.4 l	-	-	219.8 mm	93.3 mm	-	-
SL Cup	transparent	0.5 l	-	-	231.2 mm	106.5 mm	-	-
Super Cup	transparent	0.3 l	115.0 mm	80.0 mm	-	-	-	-
Super Cup	transparent	0.4 l	125.0 mm	75.0 mm	-	-	-	-
Super Cup	transparent	0.5 l	125.0 mm	90.0 mm	227.0 mm	156.9 mm	-	-
Super Cup	transparent	1.0 l	160.0 mm	105.0 mm	308.1 mm	167.8 mm	-	-
Wine cup	crystal clear	0.2 l	223.0 mm	30.0 mm	-	-	-	-
Wheat beer cup	crystal clear	0.5 l	251.2 mm	50.0 mm	-	-	-	-

Variable Printing Data - IML & Digital Printing

IML photo printing and digital printing make it possible to print variable data on every cup. Variable data involves minor deviations among different cups. This means that QR codes, barcodes, images and even individual names can be printed on every cup.

QR codes

To create QR codes, the data to be contained in them must be entered into an Excel table. The various functions need to be kept in mind here. A QR code can either refer to a website or be used for other purposes, such as a prize giveaway with numbers, for example. The column header should contain a “#” placed before what the QR code will contain: for example:

#webaddress

#number

The web address that the QR code is to contain should then be entered into the corresponding column with the prefix “URL:”:

#webaddress
URL:http://cupconcept.com
URL:http://cupconcept.com
URL:http://cupconcept.com

In the case of varying QR codes, for example for numbering all the cups, the following should be entered in the column header: #number. A numeric sequence (e.g. 1 to 500) should then be entered in the corresponding column.

#number
1
2
3
4

With regard to colour selection, high contrast is recommended to ensure that the QR code is easy to read. All colours are possible with digital printing. The QR code pattern may not be white with IML printing. A white background with a black pattern is possible.



Images

It is also possible to print various images on a cup using an Excel table. Here, the column name must contain @Bild and the column must contain the image name. A .tif file is to be used for the image. The entire name and the file type must be entered in the column.

@Bild
Image_man.tif
Image_woman.tif
Image_child.tif



Variable text

An Excel table is needed to print variable text on cups. This table must be in a tabular form and contain clear column headings that differ depending on the cup to be printed on.

For example, let's say you want to assign each cup a different name. In order to ensure the text remains the same on each cup and that only the name changes, the table needs to be structured as follows:

Cup ID	Name
1	Julia
2	Simone
3	Marcel

This table has two columns: "Cup ID" and "Name". The "Cup ID" is used to identify the cup, while the "Name" column contains the specific name assigned to each cup. This structure makes it possible to print variable data on a cup, whereby only the name changes in each case; the other information remains the same.



Barcodes – only in conjunction with IML printing

An individual barcode can be printed on every cup. Using barcodes makes it possible to precisely track and manage your inventory, which improves inventory control systems.

Barcodes also help prevent deposit fraud with returns. After each cup's barcode is scanned, the cup in question is registered as having been issued. When the cup is returned, the barcode can be used to determine whether a deposit was paid on it.

As is the case with QR codes, high contrast is also important with barcodes, as this is the only way to ensure they can be read clearly.

Barcode examples **easy to read:**



Barcode examples **unreadable:**

