

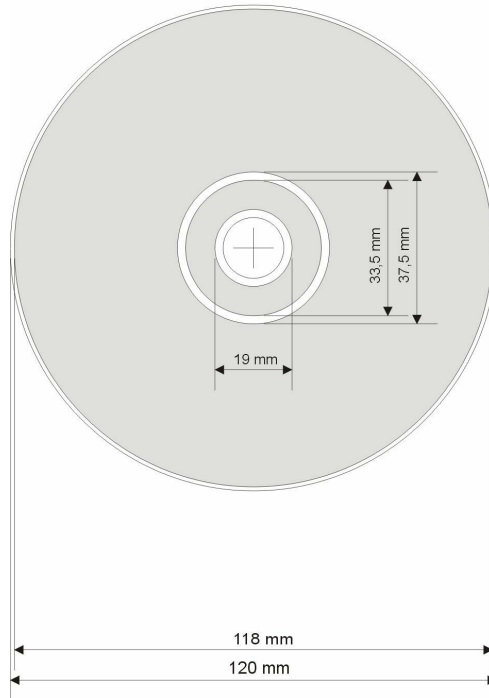
# Print specification of DVD 5

**Advice:**

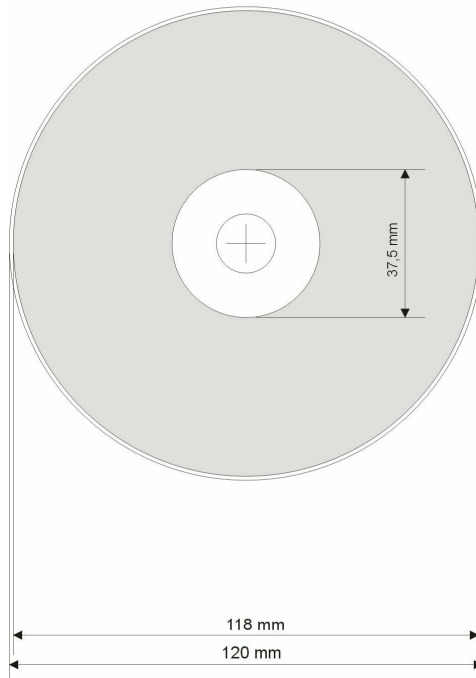
A colour variation occurs at the fringing of coated and non-coated area. To minimise this variation it is recommended to use white coloured background.



Printing zone



Variation 1



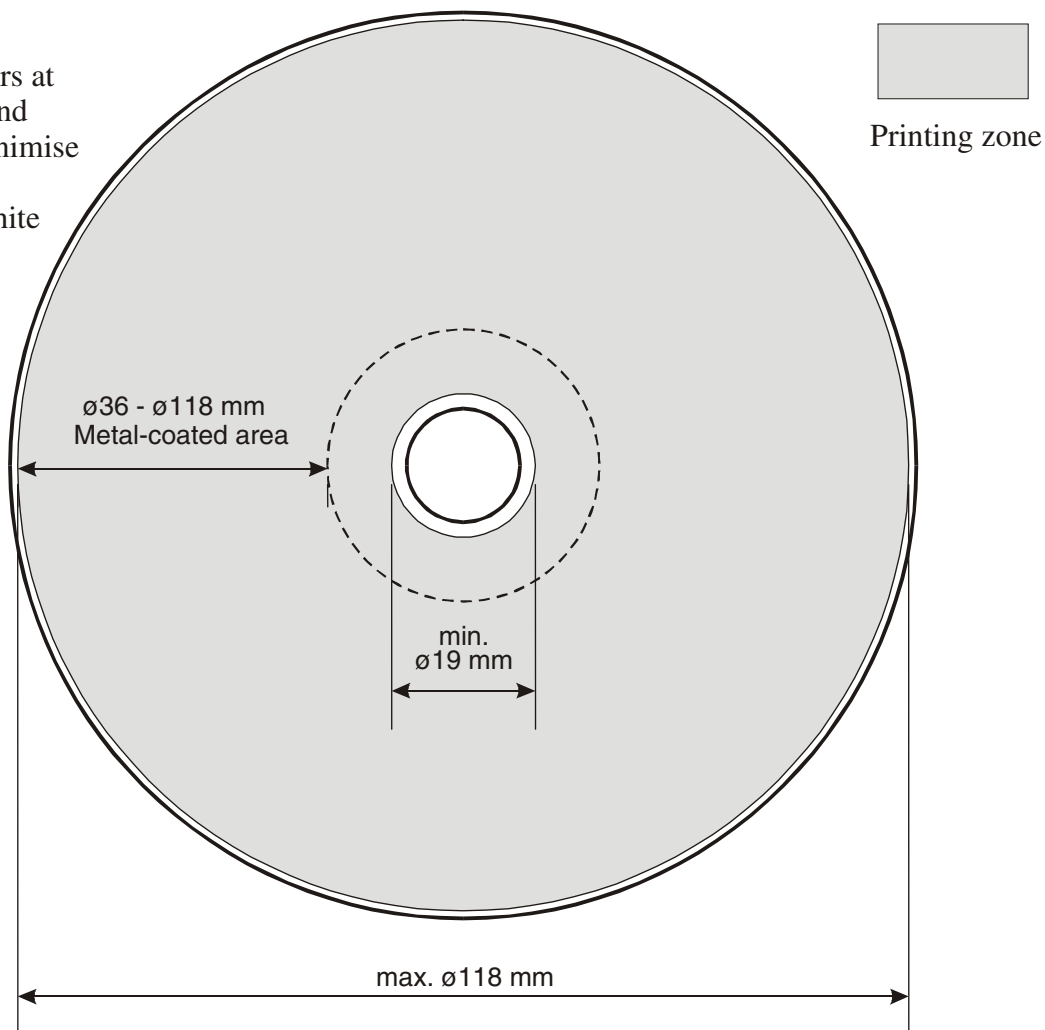
Variation 2

Picture no. 1

# Print specification of DVD 9

**Advice:**

A colour variation occurs at the fringing of coated and non-coated area. To minimise this variation it is recommended to use white coloured background.

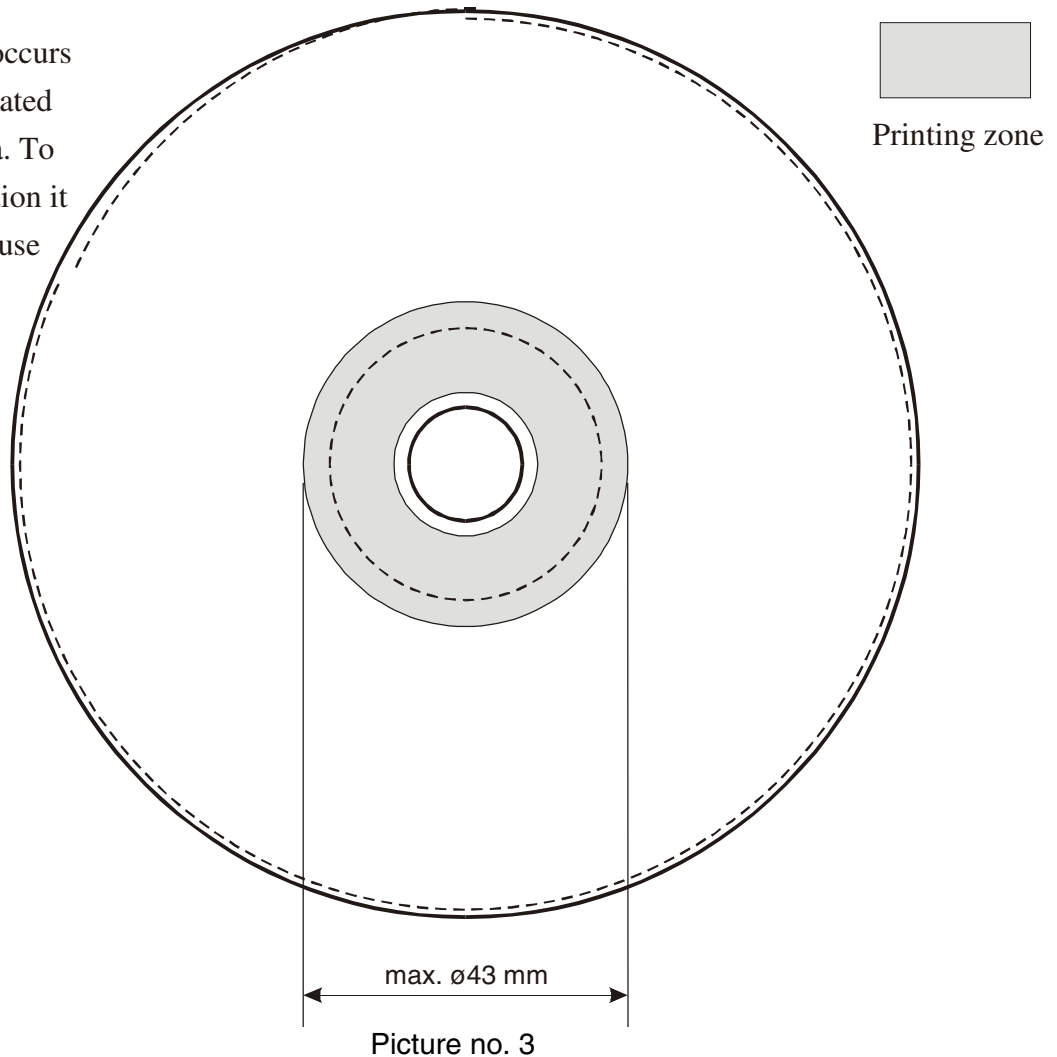


Picture no. 2

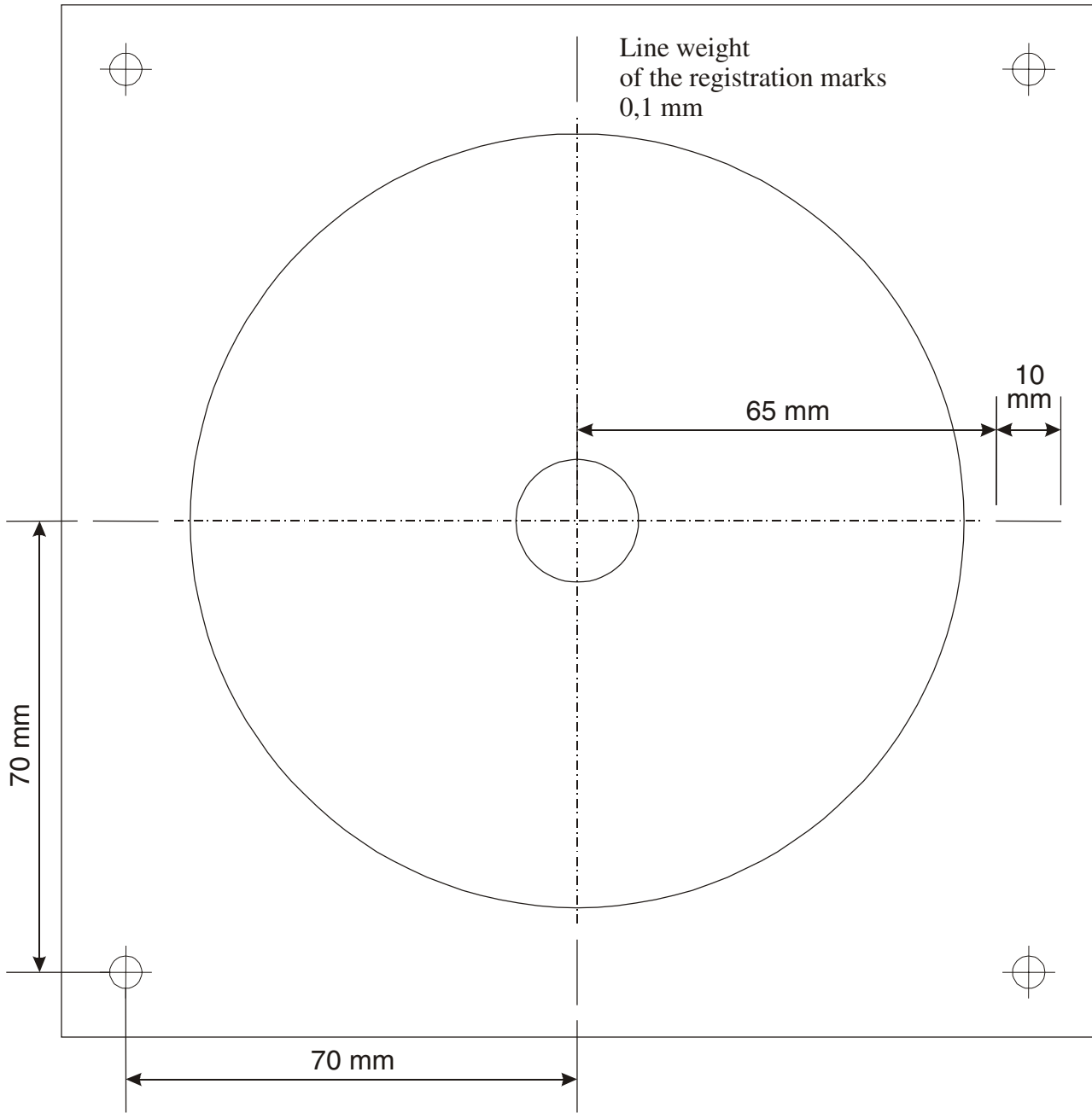
## Print specification of DVD 10 print only on side 2

**Advice:**

A colour variation occurs at the fringing of coated and non-coated area. To minimise this variation it is recommended to use white coloured background.



# Registration marks positioning



Picture no. 4

# How to prepare silkscreen films

## 1 Films

We require Positive film, Right reading, Emulsion side UP.  
 Tone range between 15% and 85%.  
 Screening of 120 lpi (= 48 l/cm).  
 Dot type autotypic ellipsoid 70/30 dot.  
 Density above 3.0.  
 Provide a separate film for each colour, also a film for the white background if applicable.

## 2 Printable area

DVD labels have exact dimensions – no trimming.  
 Centre hole for DVD labels must have:

For DVD5

- 37.5 mm diameter (only the metalized area is covered) or
- minimum 19 mm diameter. The image must be interrupted by a non-printable circular ring with a diameter from 33.5 to 37.5 mm. In this case a white background covering the entire surface (except the area 33.5-37.5mm) is recommended to minimise colour variations between metalized and non-metalized area.

for DVD9

- 36 mm diameter (only the metalized area is covered) or
- minimum 19 mm diameter. In this case a white background is recommended to minimise colour variations between metalized and non-metalized area.

## 3 Minimal line height and font size

For one colour only

Minimal font size for <b>positive print</b>	4 pt. (1.4 mm)
Minimal font size for <b>negative print</b>	5 pt. (1.8 mm)
Minimal line height for <b>positive print</b>	0.1 mm or 0.004"
Minimal line height for <b>negative print</b>	0.15 mm or 0.006"

Two colours and more

Minimal font size for <b>positive print</b>	4 pt. (1.4 mm)
Minimal font size for <b>negative print</b>	6 pt. (2.1 mm)
Minimal line height for <b>positive print</b>	0.1 mm or 0.004"
Minimal line height for <b>negative print</b>	0.2 mm or 0.008"

## 4 Colour trapping

Colour trapping 0.05 mm.

## 5 Ruling angles

The **predominant colour** must be rotated to **45° or 135°**.  
 There must be a ruling angle of 30° between the colours.  
**Always check the films for moiré patterns!**

## 6 Colour definition

For spot-colour printing we use the **PANTONE Matching System** or Metallics colour scale and the **HKS/K system**.

## 7 Registration marks

Place 4 registration marks on the corners of the film, with 140mm between each mark as shown on the picture in this document.

## 8 Identification of the films

**You must indicate on each film:** the number of the order, the colour code, the screening data (lpi and ruling angle), the grey balance, the registration marks. All of this must appear outside the printing area.

## 9 Print sample

Provide a Cromalin, Matchprint, Pressmatch, sample DVD etc. to use as a colour guide.

# Preparing Electronic Artwork

Colour images using CMYK colour model (**no RGB!**)

Resolution of colour and greyscale images – at least 300 dpi in real size!

Resolution of black/white images and line art – at least 800 dpi in real size!

The document **MUST NOT CONTAIN:**

- pictures in format DCS1 or DCS2 ( separated EPS)
- pictures in format EPS with PostScript colour management
- ICC profiles

## We accept only the following file formats:

### **1. PDF**

must be created from composite postscript (see. point 2)  
 must be Acrobat 4.0 compatible; "press optimised" must be set  
**Do not use OPI comments**

### **2. Postscript**

must be composite (do not set separations!!!) – we recommend postscript printer driver (Adobe) or postscript printer driver ScitexDolev4Press for our imagesetter (PC and MAC drivers are available from <http://www.gzcd.cz>, or by e-mail on request)  
 It **must not** be created using Linotronics printer driver that creates separated postscript  
 must include all used fonts

### **3. TIFF**