

# THIEME

+ Printing solutions - a class of its own

## THIEME 505 D MINT

Digital inkjet printer with automatic image alignment for the printing of metal coins.



Why  
THIEME 505  
D MINT?



- + Digital Image Alignment - high precision automatic alignment of the printed image to the position of the coins incl. compensation of individual coin rotation
- + High quality printing (4C and white)
- + Excellent adhesion with digital inline primer coating
- + High resistant against abrasion with digital inline varnish coating
- + Cycle time approx. 180s per substrate reception plate
- + Printing speed: up to 1600 coins/hour
- + Ink cost per coin under 1 euro cent (reference coin ø32 mm)
- + Double table (substrate carrier) design: Allows loading/unloading of carrier while second carrier is printed
- + Changeable reception plates allow the printing of different coins and bars

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### Features



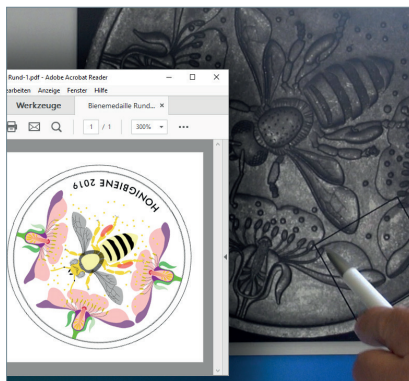
- + Two substrate (coin) reception plates: 2 x approx. 675x170 mm
- + Ink: UV-ink
- + Colors: 7, CMYK + white + primer + varnish
- + Drying: 2x UV-HG
- + Resolution: 800x1500 dpi, 800x1800 dpi, 800x2100 dpi, 1600x1500 dpi - possible depending on the image
- + Printheads: 10x Ricoh Gen5
- + HMI: Siemens S7, Touchpanel
- + Rip: Caldera Grand Rip
- + Safety features due to fluorescent top coat

### Manufacturing process:



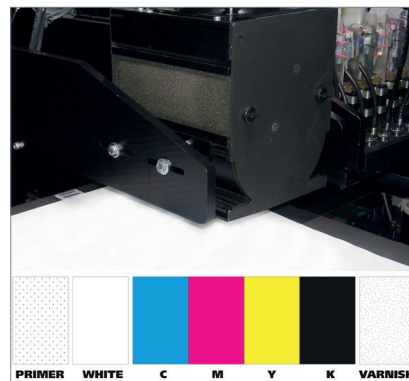
#### 1. Loading of the coins

The coins will be placed without alignment in the defined hollows of the adapter plate.



#### 2. Create PDF printing file

The THIEME digital alignment system detects the position of each coin and produces the RIP (printing file) by combining the print layout and the coin position automatically.



#### 3. Printing

The inkjet printer is printing the different inks in the following order:

- + Primer
- + White
- + CMYK
- + Varnish protection

Translucent effects are possible.  
Light inks and fluorescent varnish on request

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