

## Design printing of rims for the car industry with the printing technology from TAMPOPRINT



Single-color | Multi-color | Gray scales

Pad Printing Machines

# Design printing on wheels

To upgrade wheels with new design ideas, pad printing is THE technical solution. Only with this printing process it is possible to print directly on three-dimensionally formed surfaces. Years and years of experience in technology and application know-how in pad printing enable TAMPOPRINT to offer appropriate solutions even for such complex tasks.

In the car industry, strong focus is made on product quality. To keep these high standards also for the decoration of wheels, it is necessary to understand the technical demands of this industry. To compensate these tolerances caused during production of wheels, we have developed technologies that allow for the wheel to be perfectly positioned for the printing process. For the exact positioning of the wheels we use a rotary/swivelling table with four degrees of positioning span/angle. This way, there are almost no limits for the realization of the design because nearly every area within the wheels can be reached. The designs to be printed can vary from single-color

decorations or gray scales to six-color decorations. Very high demands are made also on the printing inks with regard to resistance against environmental impacts as well as possibilities to add varnish. User-oriented handling processes as well as the integration into an industrial production control complete the machine concepts.

As a technology leader, we see it as our duty to develop new machine concepts and to present them to the market. Excellence – Made in Germany!

**Workflow of the industrial design printing for wheels:**

- Identification of the wheel
- Requesting the data from the customer ERP system
- Centering and aligning the wheel
- Printing
- Drying of the printing inks
- Unloading

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# Dimension does not matter. Only sometimes.

Printing system	Transverse doctor blade 210 (CMM)	CONCENTRA 210-6	LFP 210
Number of colors	4	6	1
Print image size	200 mm x 300 mm	∅ 200 mm (141 mm x 141 mm)	200 mm x 600 mm
Ink/doctoring cup Standard size	1x 210 mm	1x 210 mm	1x 210 mm
Ink/doctoring cup Special size	2x 90 mm / 3x 60 mm	2x 90 mm / 3x 60 mm	2x 90 mm / 3x 60 mm
Cliché type	INTAGLIO laser cliché Magnet screen cliché record special cliché	INTAGLIO laser cliché Magnet screen cliché record special cliché	Magnet screen cliché
Cliché size	220 mm x 700 mm	220 mm x 500 mm	220 mm x 1000 mm
Force of pressure	4000 N	4000 N	25 000 N
Number of axes Machine	8	2	2
Number of axes Jigs	4	4	4
Number of cycles / hour (one passage in single printing)	300	250	250
Optional processes	Data connection to ERP system / Measuring of the spokes / Aligning / Drying		



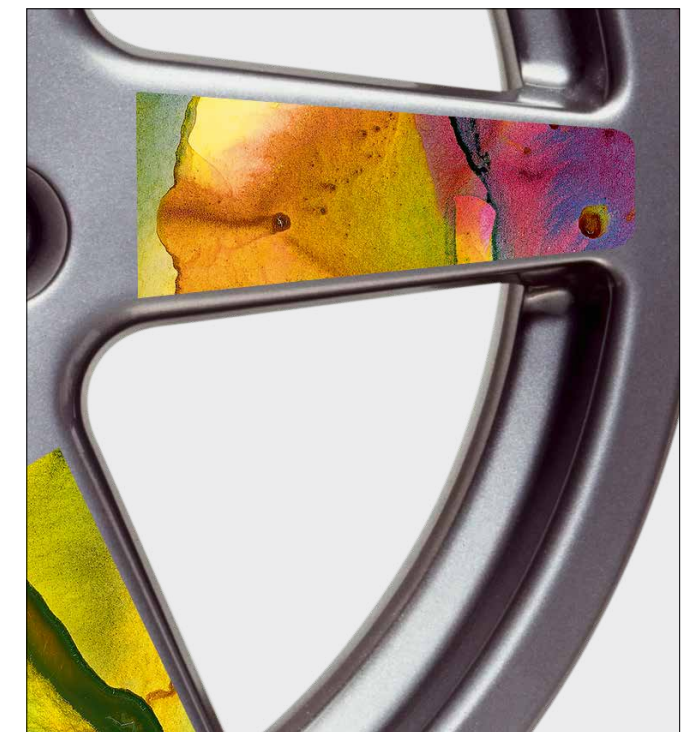
Example: Gray scales



Example: Single-color



Example: Multi-color decoration (6 colors)



Example: Multi-color decoration (CMYK)

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