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

Single-color | Multi-color | Gray scales
To upgrade wheels with new design ideas, pad printing is THE technical solution. Only with this printing process is it 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

Printing system | Transverse doctor blade 210 (CDM) | CONCENTRA 210-6 | LFP 210
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Number of colors | 4 | 6 | 1
Print image size | 200 mm x 300 mm | Ø 200 mm (141 mm x 141 mm) | 200 mm x 600 mm
Ink/doctoring cup Standard size | 1 x 210 mm | 1 x 210 mm | 1 x 210 mm
Ink/doctoring cup Special size | 2 x 90 mm / 3 x 60 mm | 2 x 90 mm / 3 x 60 mm | 2 x 90 mm / 3 x 60 mm
Cliché type | INTAGLIO laser cliché | INTAGLIO laser cliché | INTAGLIO laser cliché
Magnet screen cliché | Magnet screen cliché | Magnet screen cliché | Magnet screen cliché
record special cliché | record special cliché | record special 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 (8 colors)
Example: Multi-color decoration (CMYK)
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