



Dispersion for Ink Production

Repeatable & Consistent Quality

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Testing and measuring instruments from BYK can effectively evaluate the quality of color, gloss, and appearance as well as the physical properties of inks. Being an important part of the quality control process, our dispersion solutions deliver to following markets and applications:

- Additive manufacturing / 3D printing
- Ceramic inkjet inks
- Digital industrial printing inks
- Screen printing inks
- Textile inkjet inks



Additive Manufacturing / 3D Printing

3D printing is becoming increasingly popular not only in industry, but also in the private sector. Using this new technology, you can produce both prototypes and prefabricated components from a wide variety of materials. For plastic filaments and UV-curing resins, it is important to disperse, and grind required pigments as finely as possible in order to achieve the greatest possible color strength. This is the only way to ensure that the color of plastic materials remain unchanged and evenly distributed after the melting process. This method also prevents 3D printing nozzles from being clogged.

Our customers trust in the mature technology of our dispersion and grinding DISPERMAT® devices and use them successfully in their manufacturing process.

Ceramic Inkjet Inks

Ceramic inks are mainly used in tile printing. A small particle size of less than one micrometer is important in every case, without exception. This is the only way to prevent the pressure nozzles from being clogged. An efficient and effective dispersing process is of the highest priority. A stable dispersion is also required. If color pigments were to be re-agglomerated, this would have a major impact on the printing and baking process.



The DISPERMAT® dispersion devices of VMA-Getzmann support the dispersion and grinding process of ceramic inks with consistent results and therefore ensure a consistently stable quality of printing.

Digital Industrial Printing Inks

Analog printing technologies are becoming obsolete, while digital printing is penetrating deeper and deeper into the industry. Photo books, canvases, other decorative surfaces... Their influence is growing steadily. Inks need to be adapted to different requirements; for example, security inks for banknotes must meet particularly high requirements.

VMA-Getzmann has many years of experience in all these areas and offers a wide range of various DISPERMAT® machines for dispersing required color pigments in order to achieve consistent quality and reproducibility of inks. Our machines are also available with integrated data acquisition solutions for laboratory and production applications.



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Screen Printing Inks

The DISPERMAT® dissolver and agitator ball mills are ideally suited for the production of high-quality screen-printing inks. With both systems, color pigments can be pre-dispersed and then ground. After setting the optimal viscosity, screen printing inks are applied to various carrier media with a layer thickness of up to 15 µm.



Textile Inkjet Inks

Regardless of whether textiles are printed or dyed, whether there are clothing materials, household textiles, banners or other special textile, it is critical to ensure stable color strength over many years and, at the same time, resistance to mechanical stresses and sometimes to weather conditions. In order to achieve these goals, it is important that textile printing inks not only temporarily adhere to the fibers but dye them permanently.

VMA-Getzmann is the perfect companion for the development and production of textile inkjet inks — our machines are necessary to disperse and homogenize color pigments.



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