

DYEMANSION LAUNCHES FIRST EVER VIBRANT COLOR LINE FOR GREY HP MULTI JET FUSION PARTS

For the first time, the Munich post-processing experts have developed 17 vibrant colors especially for grey HP Multi Jet Fusion parts made of Polyamide 12, opening up completely new fields of applications for additive manufactured products produced with the HP Multi Jet Fusion process. The new colors will be commercially available from July 2020 on and will be tested with selected customers in a beta program.



29.04.2020 (Munich) - For several years now, users who use 3D-printed plastics with a white base material have been benefiting from the color selection provided by DyeMansion's DeepDye Coloring process. The Munich post-processing experts offer



their customers the largest color database on the market. From standard colors and color choices according to color systems such as RAL or Pantone to individual recipes for corporate colors, skin tones or colors with special properties such as Automotive Colors^x with increased light and heat resistance, there are many options.

However, for plastics with a grey base material, the color options have been very limited to black and dark shades. That changes from now on: In the past months a new color palette was developed especially for grey PA12 components produced with the HP Multi Jet Fusion process (4200/5200 series).

"The number of HP systems in the market is growing and our customers' demand for vibrant colors for their grey parts was strong. We have taken up this challenge and now respond to the needs of the market with a new color line. We are looking forward to the first colorful products on the market and are excited to see which industry will be the forerunner here. ", says Kai Witter, Chief Customer Officer at DyeMansion.

SPECIAL RECIPE FOR VIBRANT COLORS ON GREY BASE MATERIAL OPENS UP NEW FIELDS OF APPLICATIONS

The 17 new colors range from classic black and grey tones, through rich blue tones, to strong red tones. The new line also includes refreshing green and turquoise tones as well as a lively yellow and a vibrant pink. A previously unseen color spectrum on grey parts. This opens up completely new fields of applications for AM products made of PA12 (HP 3D HR PA 12), for example in the consumer goods sector, for orthopaedics or the automotive industry for high-value interior parts.



Specially developed for HP 3D HR PA 12 and PolyShot (PSS) Finish: The new 17 colors for grey HP MJF parts

During the DyeMansion DeepDye Coloring process, the dyes react with the base material in a water bath under pressure and heat - in contrast to spraypainting. The dyes penetrate up to 200 μm into the open pores of the parts. Parameters such as the color of the base material or the surface treatment of the part are important factors influencing the final color. As with all DyeMansion colors, the new color line was developed with surface treatment in mind. The selected process here is mechanical PolyShot Surfacing (PSS) with the DyeMansion Powershot S. The automated, mechanical blasting process achieves a homogenization of the surface and is perfectly suited for processing hard plastics. Other surface processes such as the chemical VaporFuse Surfacing (VFS) influence the coloring result and can also be tested for the new colors in cooperation with DyeMansion directly.

To achieve these vibrant colors on a grey base material, DyeMansion developed a completely new recipe that cannot be reproduced with manual pot dyeing solutions



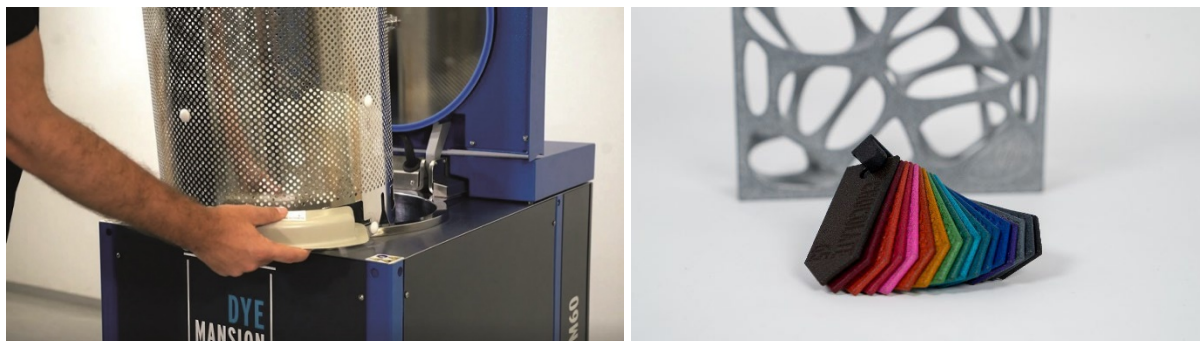
or other coloring systems on the market. Philipp Kramer, Co-Founder & CTO of DyeMansion explains more details: "In order to achieve strong colors even on parts with grey base material with immediate effect, we have redefined our process and developed a special recipe. The handling remains easy for our customers, because no DM60 hardware or software adjustments are necessary to use the new colors. "

BETA PROGRAM, WEBINARS AND AVAILABILITY OF COLOR SAMPLES

In order to meet the market in terms of quality for high-value end-use products, from today on a beta program with selected customers will start before the commercial launch in July 2020. The aim is to be able making concrete recommendations for optimum production parameters and post-processing steps after the program is complete. Users who own a HP Jet Fusion 4200 or 5200 system as well as a DyeMansion Powershot S and DyeMansion DM60 can now participate in the beta program.

Requests for the beta program or single color samples can be done by email at hallo@dyemansion.com or direct through a DyeMansion contact. Large quantities of the color samples can be ordered from June 2020.

From July 2020 on, the new colors will be commercially available and can then be ordered in the form of DM60 color cartridges or via the On-Demand Finishing Service.



DM60 color cartridge and color sample

In order to provide a deeper understanding of the new offer, DyeMansion is hosting upcoming webinars on the new colors. The webinar series "17 vibrant colors to



bring your grey HP Multi Jet Fusion parts to life" will be held for the first time next week on [05.05.2020 at 10:00 a.m. \(CET\)](#) for Europe and Asia Pacific regions. Another webinar for viewers from the United States and Canada will take place on [May 14, 2020 at 11:00 a.m. \(EST\)](#). Webinar participants will have the opportunity to ask questions during a Q&A session to R&D expert Constanza Oszwald, who developed the new color offering.

ABOUT DYEMANSION

DyeMansion is the global leader in Additive Manufacturing finishing systems that turn 3D-printed raw parts into high-value products. From perfect fit eyewear to personalized car interiors, our technology makes 3D-printed products become a part of our everyday life. Starting in 2015 with the first industrial coloring solution for powder bed fusion parts, we extended our portfolio with advanced part cleaning and surfacing solutions for a wider range of 3D-printing technologies in the field of plastics. Today, our Print-to-Product workflow combines industry-leading hardware with the widest range of color options on the market. Our Industry 4.0 ready systems can be integrated seamlessly into your production. The ability to provide a flexible solution for both small batches and high volumes makes us a trusted partner for your future factories. Through close collaboration with our customers across all industries, our technology and expertise continuously grow with the market. Reduced cost per part, unmatched quality, and high sustainability are core values that drive each and every innovation we develop. In addition to these principles, finding the right finish for every application is what drives us.

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