DEEPDYE COLORING

DM60

The leading coloring solution for industrial Additive Manufacturing

Limitless color choices: From standardized database to tailor-made recipes

Our innovative DeepDye Coloring (DDC) technology offers unlimited color choices. As a DM60 user you benefit from the largest color database. In addition to over 170 RAL and standardized colors, which are ready-to-use without additional development costs and waiting times, our color matching also offers the possibility of creating individual tones for you – from corporate colors to seasonal trend colors and individual skin tones. The fully automatic cleaning program of the DM60 allows a flexible use and a fast color change.

Exact color formulas for a reproducible and traceable process globally available

For a long time, dyeing 3D-printed plastics was a manual, uncontrollable process. We take care of this process and offer a global supply of exact color recipes down to the microgram. This enables an industrial process that could not be easier for the user and can be reproduced any time. The power lies in our color cartridges, which we manufacture depending on base material, finish and desired color. Based on the volume of your parts, we deliver cartridges in four different sizes. These are equipped with an RFID chip that transfers all process parameters QM ready to the DM60.

ISO certified colors for end-use applications across all industries

The demands for 3D-printed products are constantly increasing. Our ISO-certified colors make us a trusted technology partner for biocompatible eyewear or medical orthoses as well as for light- and heatresistant automotive interiors. With our extended ColorsX line, we are responding to industry specific requirements and are always looking forward to new input for the further development of our DeepDye Coloring (DDC) technology.

TECHNICAL DATA

DM60

PERFORMANCE

Cycle time	150 minutes
Capacity per run	Up to 3/4 EOS P396, 1x HP Jet Fusion 4200/5200 or close to 1.5x full-sized Stratasys H350 build jobs
Process chamber volume	80l | 21.1gal
Operating temperature	Material dependent (up to 115°C | 239°F)
Penetration depth of dye	Material dependent (approx. 0.2mm on EOS PA 2200)
Maximal part size (⌀x H)	390mm x 360mm | 15.3inch x 14.2inch
Color cartridge dptions	S, M, L, XL, DM Black L-R
Color options	Unlimited [1] For more information: dyemansion.com/en/color-options

DIMENSIONS

System (L x W x H)	950mm x 600mm x 945mm | 37.4inch x 23.7inch x 37.0inch
Recommended space requirement in operation (L x W x H)	1850mm x 1800mmx 1700mm | 72.8inch x 70.9inch x 67.0inch

WEIGHT

System	330kg | 662lb

CERTIFICATION
CE | 2006/42/EG
| 2014/68/EU

POWER

Heating power	8.3kW or 6.9kW
Requirements	400V, 50Hz, 16A or 208V, 60Hz, 20A

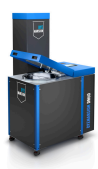
COMPRESSED AIR

Consumption	< 1,5m^3 per run, dry and oil-free compressed air

WATER

Water input	Demineralized water, conductance < 20µS/cm, min. 4bar | 58psi, volume flow 500l/h. Fresh water volume per dyeing cycle (coloring and cleaning) max. 150l | 39.6gal.
Waste water	Coloring: max. 60l | 15.9gal per coloring, water temperature max. 95°C | 203°F Cleaning: max. 90l | 23.8gal per cleaning, water temperature max. 45°C | 113°F Waste water has to be treated in compliance with local regulations.

DM60 ADD-ON SOLUTIONS



DyeMansion DM60 Reservoir
For high-volume black coloring

Dimensions (L x W x H)
385mm x 350mm x 1640mm
15.2inch x 13.7inch x 64.6inch

DyeMansion ROS
For constant water quality
& process stability

Dimensions (L x W x H)
1170mm x 700mm x 1535mm
46inch x 27.6inch x 69.9inch

[1] DM60 Black system variant also available, color option: DM Black

DyeMansion GmbH
Robert-Koch-Strasse 1
82152 Planegg-Munich
Germany
+49 89 414 170 500
hallo@dyemansion.com

DyeMansion North America Inc.
4020 S. Industrial Drive, #160
Austin, TX, 78744
United States of Americs
+1 737 205 5727
hello@dyemansion.com

For more Information, visit:
www.dyemansion.com

Status 01/2025. Technical data subject to change without notice. Please request latest technical data from DyeMansion.