



DYEMANSION DM60

The world's leading industrial coloring system for 3D-printed plastics.

Plug & Play system

The DM60 is user-friendly and enables consistent coloring results to meet the requirements for high-value, end-use products. Simply insert parts, choose a color cartridge and press start.

Best color quality in AM

Our coloring solution is optimized for powder-bed 3D technologies, like PA 11/12/6 and TPU and ensures the best color quality on the market today. The colored plastic parts are UV stable, long-lasting and not washable.

Clean process

Our color cartridges provide a contact free and clean dyeing process with no manual pigment handling. Color cartridges are available in five different sizes and have a scalable dyeing volume from 10 to more than 50 liters. An integrated cleaning program ensures fast color Changes.

No added material

Submerged in a water bath, our dyes penetrate the plastic through a chemical reaction using heat and pressure. DyeMansion is able to deliver consistent penetration depth at approximately 0.2mm. No material is added and surface is colored homogeneously in our sophisticated dyeing process.

TECHNICAL DATA

DM60



PERFORMANCE

Cycle time	Approx. 2.5 hours
Capacity per run	Up to full EOS P396 or HP Jet Fusion 4200 build job
Working temperature	Up to 115 °C 239 °F
Penetration depth of dye	Approx. 0.2 mm
Integrated cleaning program	Fully automated
Heating power	6 kW

DIMENSIONS

Coloring system PED (L x W x H)	950 x 600 x 900 mm 37.4 x 23.7 x 35.5 inch
Coloring system ASME	1000 x 600 x 950 mm 39.4 x 23.7 x 37.4 inch
Coloring system in operation PED (L x W x H)	2030 x 1250 x 1700 mm 80.0 x 49.3 x 67.0 inch
Coloring system in operation ASME	2030 x 1250 x 1700 mm 80.0 x 49.3 x 67.0 inch
Maximum part size (Ø x H)	390 x 360 mm 15.3 x 14.2 inch
Color cartridge sizes	S, M, L, XL, R-L

WEIGHT

Coloring system PED	250 kg 552 lb
Coloring system ASME	300 kg 662 lb

COLOR OPTIONS

17 standard colors, RAL/Pantone, customized colors

POWER

Connection	400V 50Hz CEE 16A incl. feed line 3 m 9.8 ft or 208V 60Hz, NEMA L21-20A, incl. feed line 3 m 9.8 ft
Consumption	Max. 11kWh per 2.5 h dyeing cycle

RESOURCES

Fresh water	Water inlet 1/2" ET, demineralized water <20µS, min. 3.5 bar 50.8 psi, fresh water per dyeing cycle max. 135 l 35.7 gal
Waste water	Coloring: 1/2" ET, 2 bar 29 psi pressure-proof, chemical waste water per colour cycle max. 60 l 15.9 gal, water temperature < 95°C 203°F Cleaning: 1/2" ET, 2 bar 29 psi pressure-proof, drain waste water per colour cycle max. 75 l 19.8 gal, water temperature < 45°C 113°F
Compressed air	Plug nipple (NW 7,2), dry and oil-free compressed air, air flow per colour cycle max. 400 l 105.7 gal at 4 bar 58 psi

OPTIONAL EXTRA: DM60 RESERVOIR



Coloring system incl. Reservoir (L x W x H)	950 x 940 x 1560mm 39.4 x 37.0 x 61.4 inch
Coloring system incl. Reservoir in operation (L x W x H)	2030 x 1600 x 1700mm 80.0 x 63.0 67.0 inch
Compressed air	Air flow per colour cycle max. 600 l 158.5 gal at 4 bar 58 psi

CERTIFICATIONS

- ✓ CE 2006/42/EG
- ✓ PED 2014/68/EU
- ✓ UL 61010-1 & UL 61010-2-010
- ✓ ASME Sec. VIII Div.1

Some countries demand specific pressure vessel requirements.

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