



Handling | Composite Guide | Sleeves

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Handling

- ✓ Composite sleeves are lightweight and require special care during handling. To prevent potential damage, use appropriate grips and protective gloves while transporting and installing them. Ensure you avoid dropping or striking them, as this can affect their structure and functionality. Gentle handling is crucial to maintain their integrity and performance, especially in industrial environments where they are intensively used.

Cleaning

- ✓ After each printing cycle, thoroughly clean the surface of the sleeves from ink, glue, and other contaminants. Use cleaning agents recommended by the manufacturer and avoid harsh chemicals that could damage the composite surface. It is recommended to use a mixture of ethyl alcohol with ethyl acetate, ensuring that the concentration of ethyl acetate does not exceed 20%.

Maintaining Appropriate Temperature

- ✓ Excessive heat can affect the composite structure. Monitor and maintain the appropriate temperature during printing and storage of the sleeves. Avoid prolonged exposure to heat sources, which may cause deformation. The recommended room temperature for storing sleeves is between 18-25°C.

Storing

- ✓ Composite sleeves should be stored horizontally on special racks or shelves that provide support along the entire length of the sleeve. Avoid storing them vertically to prevent deformation.

Installation

- ✓ Composite sleeves require caution during installation, particularly regarding the clamping force. It is important to ensure that the sleeve is precisely fitted to the machine, and the pressure is set according to the manufacturer's guidelines. Excessive clamping pressure, above the upper limit recommended by the machine manufacturer, can lead to surface damage to the sleeve, negatively affecting its performance and durability. Regular monitoring of machine settings is crucial to ensure optimal working conditions for the sleeves.

Checks

- ✓ Regularly check the sleeves for cracks, scratches, and surface wear. Even small damages can affect print quality, making quick detection and repair or replacement of sleeves essential.

Tapes

- ✓ When installing composite sleeves, use appropriate tapes that do not react with the composite material. Inappropriate materials may weaken the structure of the sleeve or cause uneven adhesion of the plate.

Calibration

- ✓ Ensure that the mounting systems for the sleeves are regularly calibrated to avoid improper fitting of the sleeve in the machine. Composite sleeves require precise fitting to ensure optimal print quality.

Moisture

- ✓ Composite sleeves are sensitive to moisture, so they should be stored in dry, controlled conditions. Excessive humidity can cause degradation of the composite material and affect the fit and dimensional stability of the sleeves. The recommended humidity level is 40-60%.

Sharp Tools

- ✓ Composite sleeves can be damaged by sharp tools; therefore, avoid contact with metal tools during maintenance or installation, which can scratch or damage their surface. It is advisable to cut foam along the mounting line using sharp-bladed knives (like wallpaper cutters) that do not have serrated edges. For quick and precise cutting with high repeatability, an oscillating knife is recommended.



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