Head of A320 Family Paintshop Hamburg Ralph MAURER

Airbus Innovation Days Direct Printing Technology



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Traditional decoration methods for complex designs





Traditional decoration methods for complex designs

Adhesive Film

Application of adhesive film and overcoating with clearcoat



<u>Airbrush</u>

Build up design layer-by-layer with multiple working and drying steps



Dot / Hexagon Stencil Process

Build up design layer-by-layer with multiple working and drying steps



<u>Advantages</u> All freedoms of design	Advantages Individual design with one paint system	Advantages Reproducibility of color gradations
<u>Disadvantages</u>	<u>Disadvantages</u>	Disadvantages
High material costs	High lead time	High recurrent costs (development & stencil production)
Durability at high erosion areas	Repeatability of design	Limited appearance and complexity



Traditional decoration methods for complex designs

New Technology vs traditional methods

Traditional methods become insufficient with airlines desire for artistic designs

Development of a new technology to create complex livery paintings automatically and increase flexibility







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Direct Printing Technology

Printer head is similar to an inkjet-printer

CMYK color with optional white primer

Solvent ink instead of paint

3D-surface printing technology





Direct Printing Device





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Launch Customer – Thomas Cook Airlines

Launch customer

Delivery to Thomas Cook Airlines in March 2016

1st industrial application on vertical tail plane



Launch Customer – Thomas Cook Airlines





One step to Future Factory





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