



Just the ticket! cirp and Photocentric keep model railway enthusiasts on track.

INTRO AND APPLICATION:

Railway modelling continues to be a very popular hobby - in Europe, famous brands including Hornby, ROCO, Marklin, Bachmann, Walthers and Piko dominate the market.

In Germany, cirp, a 3D Printing Bureau were approached by modellbahn.blog, a specialist online model railway retailer that offers service and a wide range of spares and accessories to model railway enthusiasts.

The team at modellbahn.blog came up with an idea to create a new aftermarket product for model locomotives. They saw an opportunity to create very small loudspeakers that would add audio or enhance the existing audio capability of the model locomotives. These loudspeakers would be designed to sit within the chassis of the locomotive models and integrate with the existing electronics.

//CHALLENGE

For the project to be successful it was imperative to be able to repeatedly produce very small parts consistently with precise details such as drill holes and pins for electronic components. In addition, several variants were required for different locomotive models. For large volumes of parts, injection moulding would be the obvious manufacturing solution, but at far lower volumes the cost of tooling was prohibitive. In order to keep this project on track another solution was required.

//SOLUTION

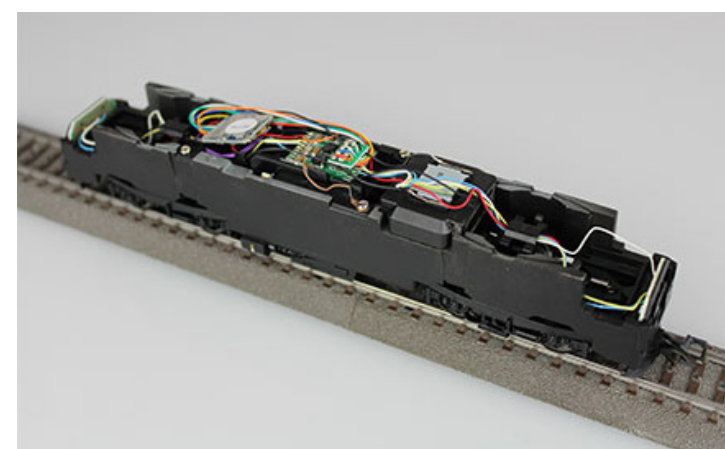
With their knowledge of Photocentric printers and materials, cirp identified the Photocentric LC Magna as the obvious choice. With its speed, build volume and access to a range of high-performance materials, the LC Magna was perfect. BASF Forward AM Ultracur3D® Daylight resin was chosen as the material. In less than 8 hours nearly 1000 highly detailed parts were produced in over 20 variants. The result meant that modellbahn.blog were able to provide their passionate model railway customers with an ingenious sound experience product in no time at all.

"We were delighted that cirp chose their Photocentric LC Magna for this project. The large print volume, print quality and high degree of accuracy that the LC Magna delivers, ensured that their customer was able to enter the market quickly with a high-quality solution."

Sally Tipping, Sales Director, Photocentric.

EQUIPMENT LIST

Photocentric LC Magna
Photocentric Air Wash L
Photocentric Cure L2
Resin: Ultracur3D®
Daylight resin



Photocentric

UK Titan House, 20 Titan Drive, Peterborough, PE1 5XN
USA Avondale 107 - Building 'A' 855 N. 107th Ave., Suite A110, Avondale, Arizona 85353
www.photocentricgroup.com

