

BAARS



Eyewear production demands precision engineering, cost control, and design freedom—delivered seamlessly through MoldJet technology.

KEY HIGHLIGHTS

THE CHALLENGE

Produce high-precision hinges for thousands of eyeglasses, ensuring both cost-efficiency and uncompromised design quality. Traditional AM technologies struggled to meet this demand.

THE SOLUTION

Thousands of parts were effortlessly manufactured in less than 20 hours, showcasing rapid production skill

THE RESULT

Scalable mass production, capable of producing 16,000 parts (for 4,000 glasses) with 800 parts per tray.



ABOUT BAARS

BAARS is a Paris-based eyewear brand celebrated for its minimalist design and magnetic hinge technology. By combining functionality with refined aesthetics, BAARS creates durable, high-quality frames that stand out in the premium eyewear market.



THE CHALLENGE

BAARS needed to produce high-precision hinges for thousands of eyeglasses, ensuring both cost-efficiency and uncompromised design quality. Traditional AM technologies struggled to meet the challenge:

- 1 The hinge design required a **visible face area (8 × 5.6 mm)** with a decorative surface finish.
- 2 Both side faces needed to feature a **layered 3D print texture** as a deliberate design element.
- 3 Large production volumes were required while keeping costs per part low.



MIMPLUS AND MOLDJET® TECHNOLOGY

MIMplus, with its expertise in advanced manufacturing and demanding materials, leveraged Tritone Technologies' MoldJet® system to tackle BAARS' challenge.

Key Goals:

- 1 Produce **thousands of parts simultaneously** to meet volume requirements.
- 2 Maintain **complex design features** without compromise.
- 3 Ensure the use of **high-quality materials** for durability and premium appearance.



THE SOLUTION – SINTER-BASED ADDITIVE MANUFACTURING (AM)

Using MoldJet® technology, MIMplus successfully delivered:

- ▶ **High resolution and precision** – ensuring hinge reliability and consistent dimensions.
- ▶ **Outstanding surface quality** – critical for eyewear components.
- ▶ **Scalable mass production** – capable of producing 16,000 parts (for 4,000 glasses) with 800 parts per tray.



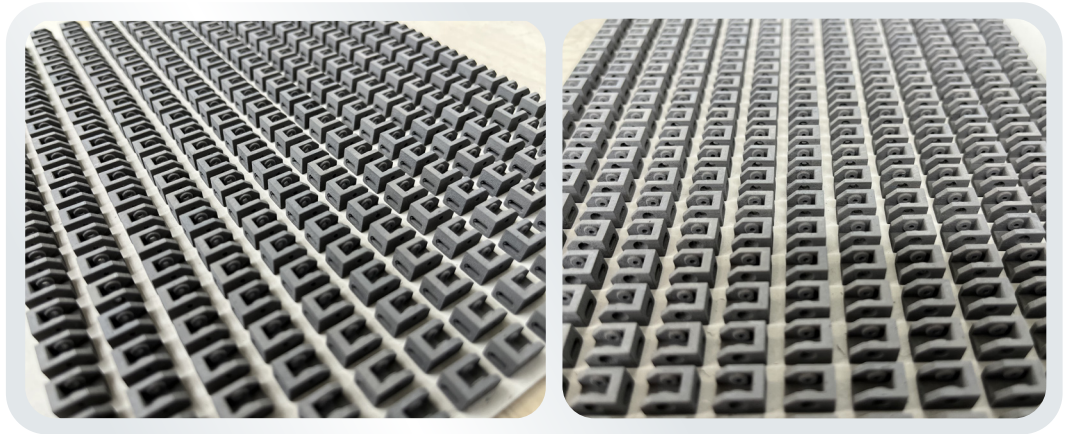


CUSTOMER FEEDBACK

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"We are extremely satisfied with both the surface quality and dimensional consistency of the parts. Our end customers have given very positive feedback. The collaborative development environment with Tritone, OBE, and MIMplus has been outstanding."

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ABOUT TRITONE TECHNOLOGIES

Tritone Technologies developed MoldJet® technology and AM systems designed for scalable industrial production of high-quality metal and ceramic parts. By enabling flexibility in design and

cost-efficient production at volume, Tritone empowers companies like BAARS to innovate without compromise.

ABOUT MIMPLUS

MIMplus combines profound industry expertise with a flexible, customer-focused approach. With extensive design freedom and continuously advancing manufacturing processes, they produce metallic components and assemblies economically in

both medium and large quantities. Their expertise allows them to help customers develop innovative or improved solutions for critical applications across key industries.