

# MiMtechnik GmbH

**ExOne® Innovent+™ printer rapidly produces new product in 1 week—traditional metal injection molding, 10 - 14 weeks.**



## Customer Challenge

To develop fasteners for building hardware for customer evaluation. Metal Injection Molding (MIM) was chosen as the manufacturing technology for the serial production. Annual quantity for the fasteners for building hardware is approximately 600,000 pieces in the first year; 1.2M pieces the following years.

## The Solution

Because the mold tooling for MIM is traditionally expensive and lead time is usually 10 - 14 weeks, the new product was manufactured using the ExOne Innovent+™ printer. By doing so, MiMtechnik was able to present its customer with samples within 1 week after receiving the customers inquiry.

By using the same powder for the Binder Jetted parts and the MIM serial parts, MiMtechnik could use its current sintering process. Delivered final part properties for the product matched what the customer could expect for MIM parts.

## Conclusion

MiMtechnik used the ExOne Innovent+™ to produce and deliver new product designs in 1 week that resulted in a high-volume piece order.

## Specifications

Customer: MiMtechnik GmbH, Germany

www.mimtechnik.de

Parts: Fasteners for building hardware

Material: 316L High Density Single Alloy



## Traditional Methods & Pricing

Method: Metal Injection Molding (MIM)

Total time: 10 - 14 weeks

Tooling costs: € 10,000 - 20,000

## ExOne Innovent+™ Printer

Total time: 1 week

Tooling costs: € 0

## About ExOne®

ExOne offers Binder Jetting 3D printing —creating parts directly from 3D CAD files. The technology is capable of a geometric complexity unachievable with conventional manufacturing methods.

To learn more, contact: [www.exone.com](http://www.exone.com)

ExOne operates facilities across the Americas, Europe and Asia.