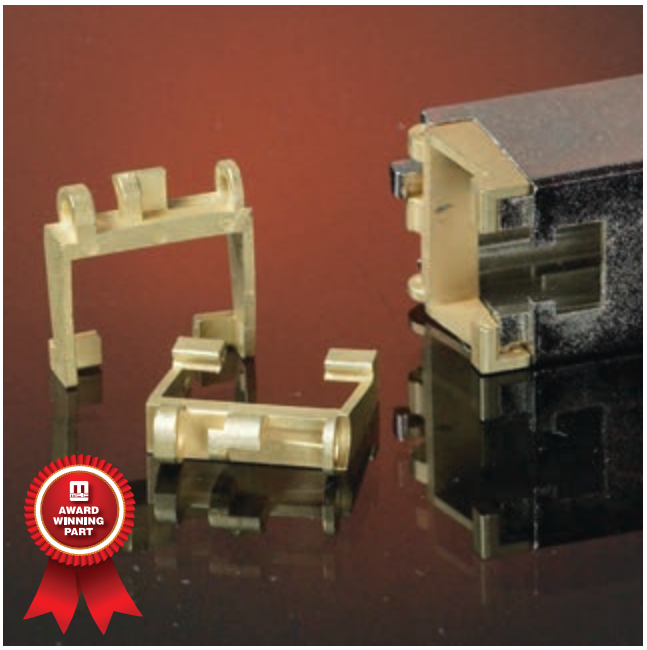
CASE STUDY



A 2012 Award of Distinction winner in the Electronic/Electrical category.

Lever

Process:
Metal injection molding

End Use and Function
This intricate metal injection molded (MIM) part is used in a latch ejector mechanism for pluggable gigabit Ethernet connections. The specific challenge with this part lies with the goal post arms—their position is critical to product performance

Fabrication
The tool for this part requires multiple slide actions in order to achieve the target geometry. In addition to a complex injection mold, a complex system for setting the part during sintering enabled the elimination of post-sinter cold deformation.

Results
Using MIM to create this part resulted in:

- The elimination of two coining steps (entirely removing the need for coining)
- Economical costs
- Removal of waste from previously machining the part from bar stock.