



# magnet news

*new directions in magnets...*

Case Study-003



ENEFLUX ARMTEK MAGNETICS, INC.

## Postage Machine Manufacturer Improves Design with EAM's Advanced Injection Molding and Magnetization Technology

Technology that other vendors couldn't supply...

*Technology that other vendors couldn't supply was developed by EAM. Here's what we did to provide the solution...*

One of the largest postage machine manufacturers in the world contacted EAM concerning a new design they were hoping to implement. This design required a magnet with extraordinary capabilities, however, they were unable to find a company to design and produce such a part.

Working in conjunction with our joint venture partners who design and manufacture complex magnetizing fixtures, EAM was able to create two injection molded neodymium parts that met



the very specific requirements of this demanding application.

**The Problem:** This design also required a magnet that would activate a sensor and measure the thickness of the paper as it ran through the machine. For this, a magnet was required with 5 uneven poles on one surface of a very small — yet powerful — part. No other company they contacted was able to meet these specifications.

**The Solution:** Again, EAM designed the appropriate magnetizing fixture from scratch, and as a result was able to provide the magnet the customer needed at the price that they wanted.

...EAM developed and produced the solution.

**The Problem:** The design depended on a rotary sensing device which works in conjunction with a hall effect probe to monitor the flow of paper through the postage machine. In order to work as designed, the magnet would need to have 40 poles on only a one inch diameter magnetic surface. It would also have to be very powerful.

**The Solution:** EAM designed a rotary magnet with the required field strength - while maintaining the definition between the 40 poles on the one inch face of the part. We were also able to reduce the amount of neodymium powder necessary to create the magnet itself - producing significant cost savings.

### Product Spotlight

EA Magnetics is positioned to respond to the complex requirements of the world's most demanding customers. Our application experts **routinely re-examine and re-design** parts that can make all of the difference, in production, after sale reliability and your bottom line. Contact us with your requirements.

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