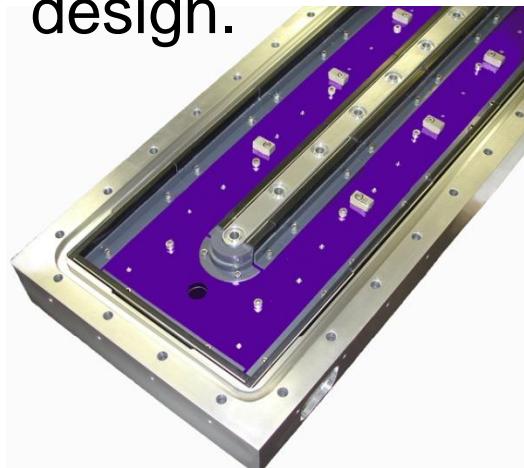


# BOCCT Magnet Retrofit



# Introduction

- High performance magnet retrofit assembly for the BOCCT- HRC magnetron assemblies.
- Optimized to dramatically improve target utilization over the existing BOCCT design.



# Construction

- Modular 6061 Aluminum magnet mounting plate.
- Profiled, high strength, rare earth, NdFeB magnet assembly.
- Water blocks create turbulent water flow in the cathode body.

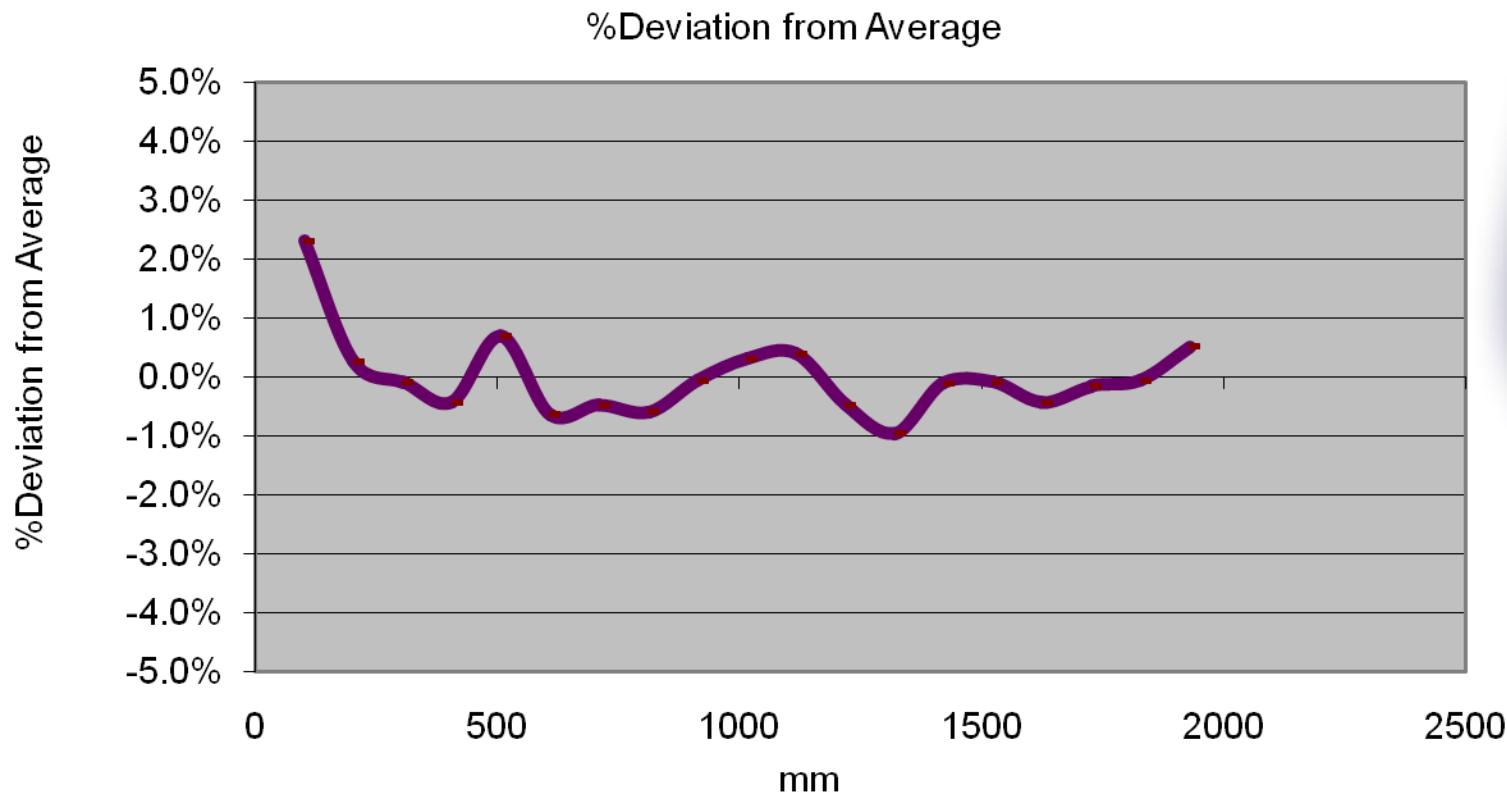


# Advantages

- Modular design allows for fast and easy installation.
- Magnetically modeled to operate in existing process parameters.
- Magnetic field enhanced to allow sputtering of thicker targets.
- 43%+ target utilization yields lower material costs and downtime.



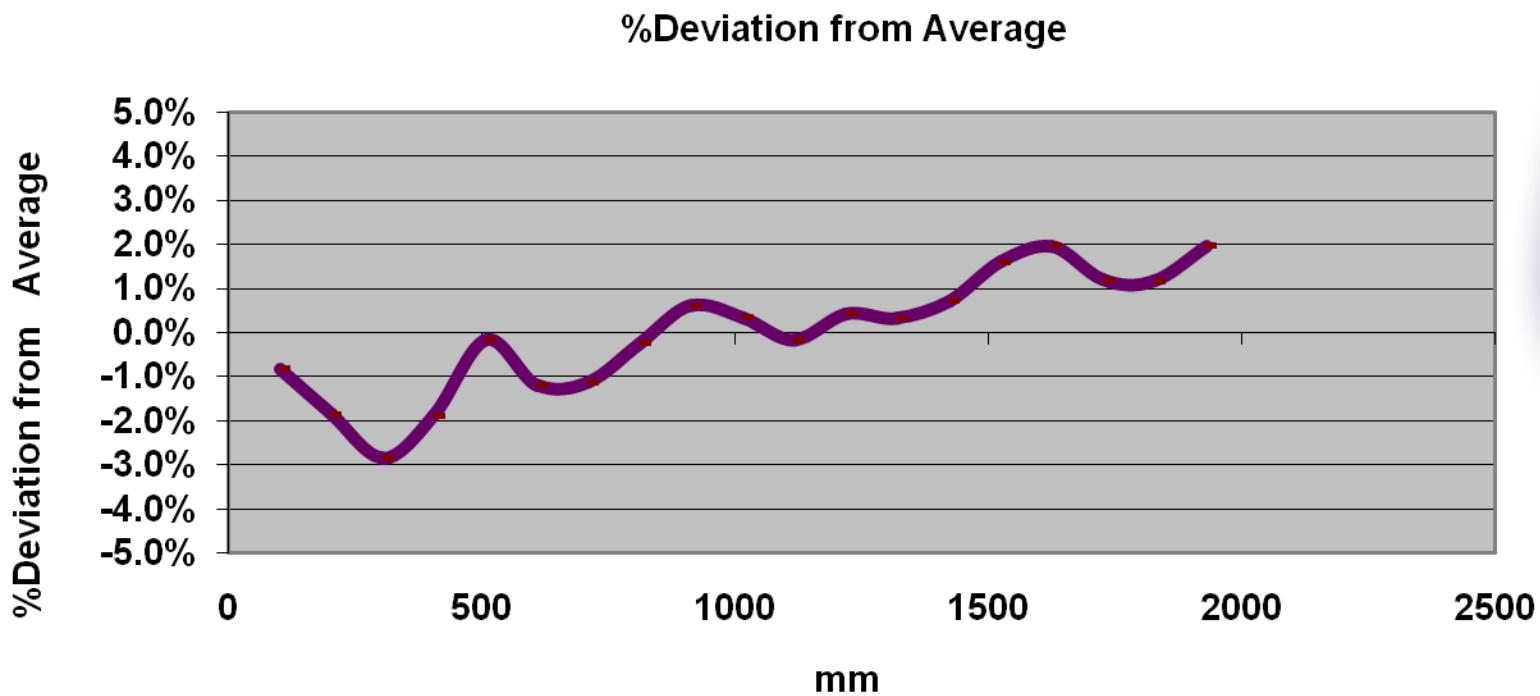
# Uniformity Data



Better than +/-5%. Typically in the +/-3% range

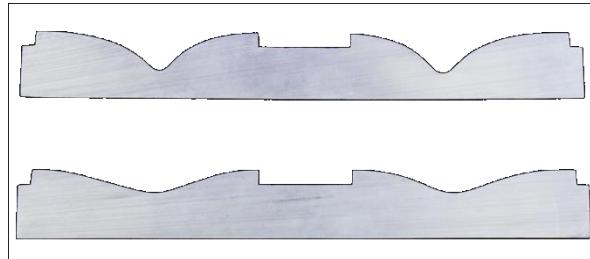
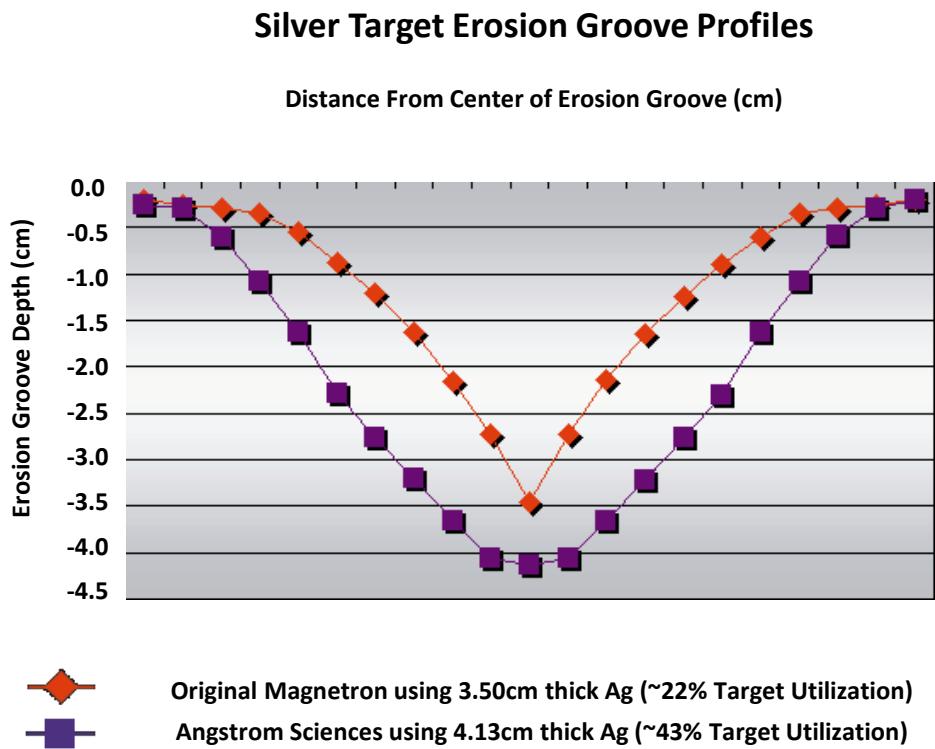
[www.angstromsciences.com](http://www.angstromsciences.com)

# Uniformity Data

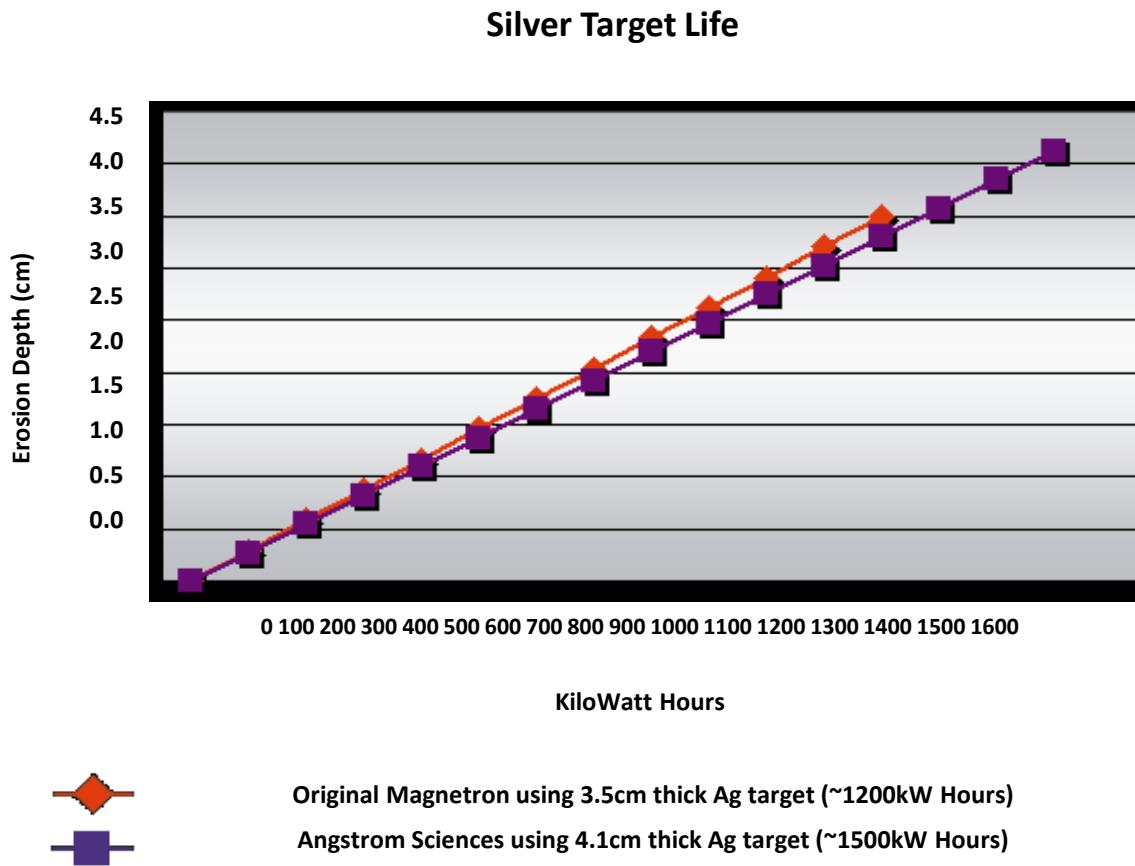


Actual uniformity shown above is +/-2.4%

# Target Erosion Profile



# Target Life Comparison



# Conclusion

- BOCCT- HRC magnet retrofits provide a fast, easy, and cost effective improvement to the original BOCCT design.
- The retrofit has been proven in the field to improve target utilization up to 43%+ and operate at existing process parameters.
- Angstrom Sciences fully guarantees performance and offers a 2 year warranty.