Gencoa full face erosion (FFE) magnetics combine ultra-uniform films with clean target erosion by a rotational scanning of the plasma over the target surface.

**KEY FEATURES**

1. High target use, clean target, fewer layer defects
2. Single magnetic pack for sputtering of any material
3. Uniformity adjustments by array offset and varying rotational speed
4. Magnetic material and RF sputtering options
5. Pre-delivery tuning to achieve non-standard specifications
A high deposition rate is delivered through efficient water cooling and a very small T-S separation that reduces coating losses. High rates and target use are achieved in combination with high uniformity – typically < ±3%.

Working at low T-S requires a magnetic pack design that creates a target erosion to impose a uniformity coating material flux on the substrate. Adjustments for process conditions and material changes can be made by adjusting the magnetic array offset or rotational speed. There is low uniformity drift with target life which can be combated with speed adjustments.

The 12” circular FFE magnetron (FFE300) can deposit layers with 1-3% uniformity onto 200mm wafers, and from a 17” target diameter (FFE430), a similar uniformity is achievable when depositing onto 300mm wafers.

FURTHER INFORMATION
Contact: sales@gencoa.com or visit www.gencoa.com/circular-ffe