

# TORUS<sup>®</sup> Mag Keeper<sup>™</sup>

## Target Guide

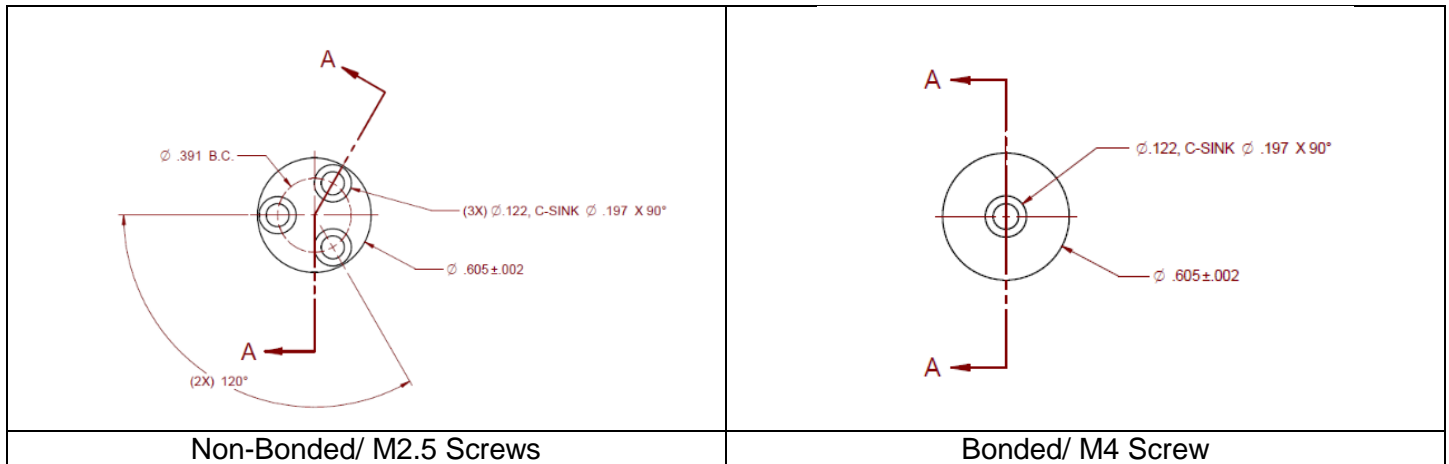


**Note:** There are (2) Standard Target configuration options for the Mag Keeper magnetron designs.

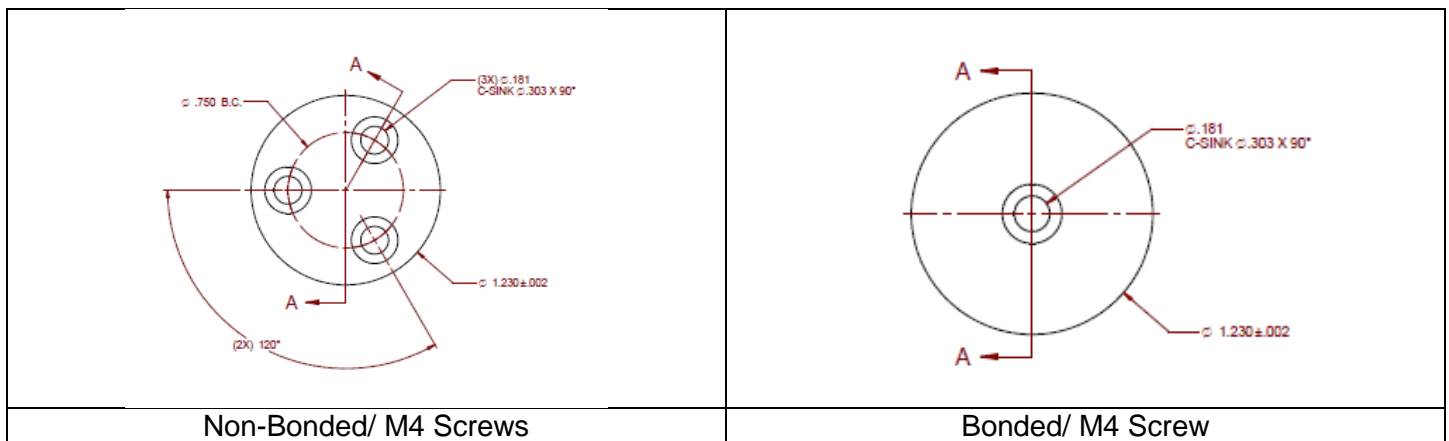
1. Non-Bonded Targets: 3-Screw, Keeper configuration (Directly tapped to target)
  - a. **Magnetic metals- do not require a keeper**
2. Bonded Targets: Single Screw, Keeper configuration (Tapped to 0.125" thick, Cu backing plate)
  - a. Requires an **Elastomer bond**.

\*All "keepers" will use "metric" screws

### TMK2 (TORUS 2 MAG KEEPER) Options:



### TMK3 and 4 (TORUS MAG KEEPER, 3" and 4") Options:



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**Materials (Non-Bonded) Include (1/4" thick targets):**

Aluminum	Barium	Cadmium
Copper	Chromium	Hafnium
Stainless Steel	Molybdenum	Magnesium
Niobium	Strontium	Nickel Vanadium
Titanium	Vanadium	Lanthanum
Zinc	Zirconium	Yttrium

**Materials (Bonded) Include (1/8" thick targets, materials that cannot be drilled and tapped):**  
 (\*)= Precious Metal

Aluminum Oxide	Aluminum Nitride	Boron
Aluminum Zinc Oxide	Antimony Telluride	Barium Fluoride
Boron Carbide	Boron Nitride	Carbon
Germanium	*Gold	Indium
Indium Tin Oxide	Iridium	Lead
Lithium Cobalt Oxide	Magnesium Oxide	Molybdenum Disulfide
*Palladium	*Rhodium	*Ruthenium
Silicon	Silicon Carbide	Silicon Dioxide
Silicon Nitride	Selenium	*Silver
Tantalum	Titanium Dioxide	Tantalum Oxide
Tungsten	Zinc Oxide	Zirconium Oxide
Borides	Fragile Alloys	Tellurides
Oxides	Nitrides	Carbides

**Magnetic Materials (No Keeper Required)**

Note: Max thickness will vary based on material, magnetron size, and magnetic configuration

Nickel	Iron	Cobalt
Neodymium Iron Boride	Permalloy	Magnetic alloys