

# CM-Series End Block

## FEATURES:

- Customizable drive shaft length
- Ultra compact and flexible form factor
- Easy access water seal cartridge
- Simple design, fewer parts, and highly reliable
- Magnet bar externally adjustable to any angle
- Patented target water fill/drain feature
- Fits industrial standard 125mm ID target sizes or smaller, 80mm size

## BENEFITS:

- All utilities are external
- Utilities remain attached during target changeover
- Wider coverage than drop-in end blocks
- Fits most chamber designs
- Excellent power capability with no inductive heating impact - no brush dust
- High packing density; dual cathodes in 220mm space with an 80mmID target tube
- Drive motors 360° positioning
- Simple, in-house maintenance
- Allows co-sputtering, tight plasma coupling, and limits shield coating

## NEW SYSTEM INSTALLATIONS:

- Our compact end block allows chamber design flexibility and the ability to install more cathodes in your system
- Integrate with SRM-Bar™ TRM-Bar™, QRM-Bar™, or mQRM-Bar™ magnetics and e-Cathode™ systems with a 80mm or 125mm ID target tube



Patented CM-Series External End Block

Average End Block Weight: 15 kg

## UPGRADE PLANARS TO ROTARIES:

- Coater modification and integration support available
- Switch between planars and rotaries in the same position

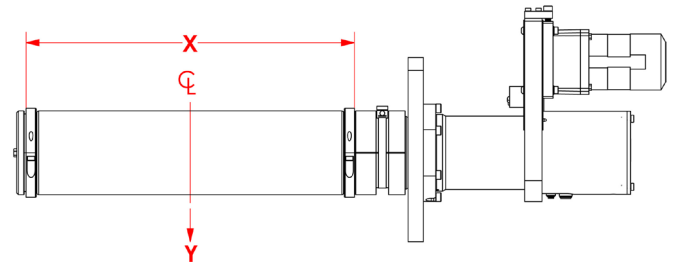
## CANTILEVER CAPABILITY:

$$\text{Metric: } XY/2 + 16X^2 \leq 23$$

$$\text{Imperial: } XY/2 + 0.9X^2 \leq 2,000$$

X = Backing tube length (meters or inches)

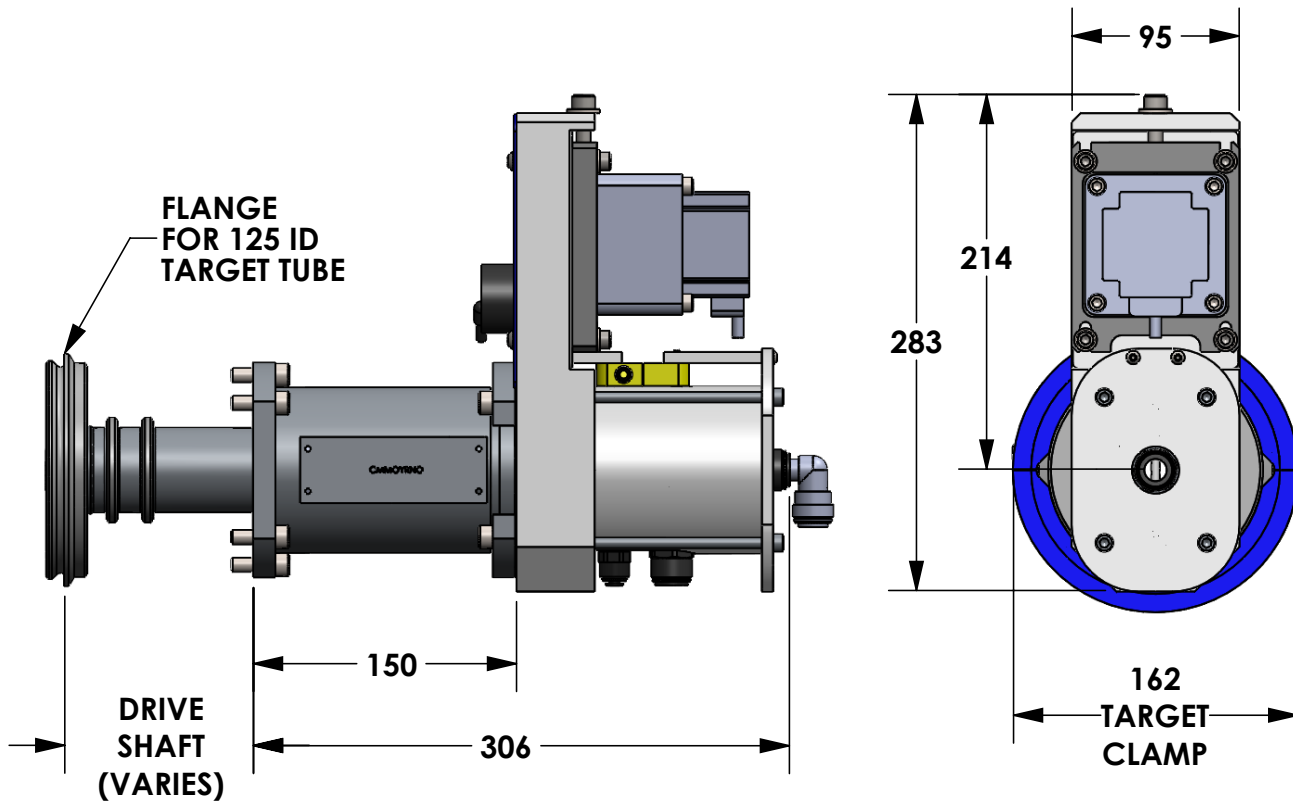
Y = Weight of target (kg or lbs only)



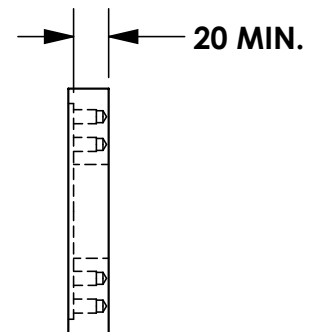
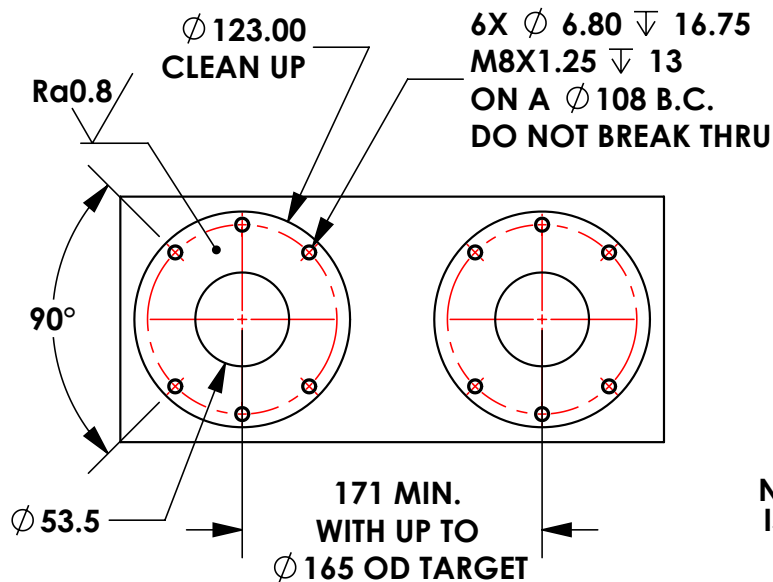
Model	Power	V/A	Target (mm)
CM	Up to 20kW DC or 80 kHz MFAC	1500v/50A	Up to 1000mm

# CM-Series - 125mm ID Target

The CM-Series external end block combines high-performance and reliability in a very compact and lightweight design



95mm MINIMUM DRIVE SHAFT WITH A 20mm WALL  
(36mm MINIMUM WITH SPECIAL PARTS)

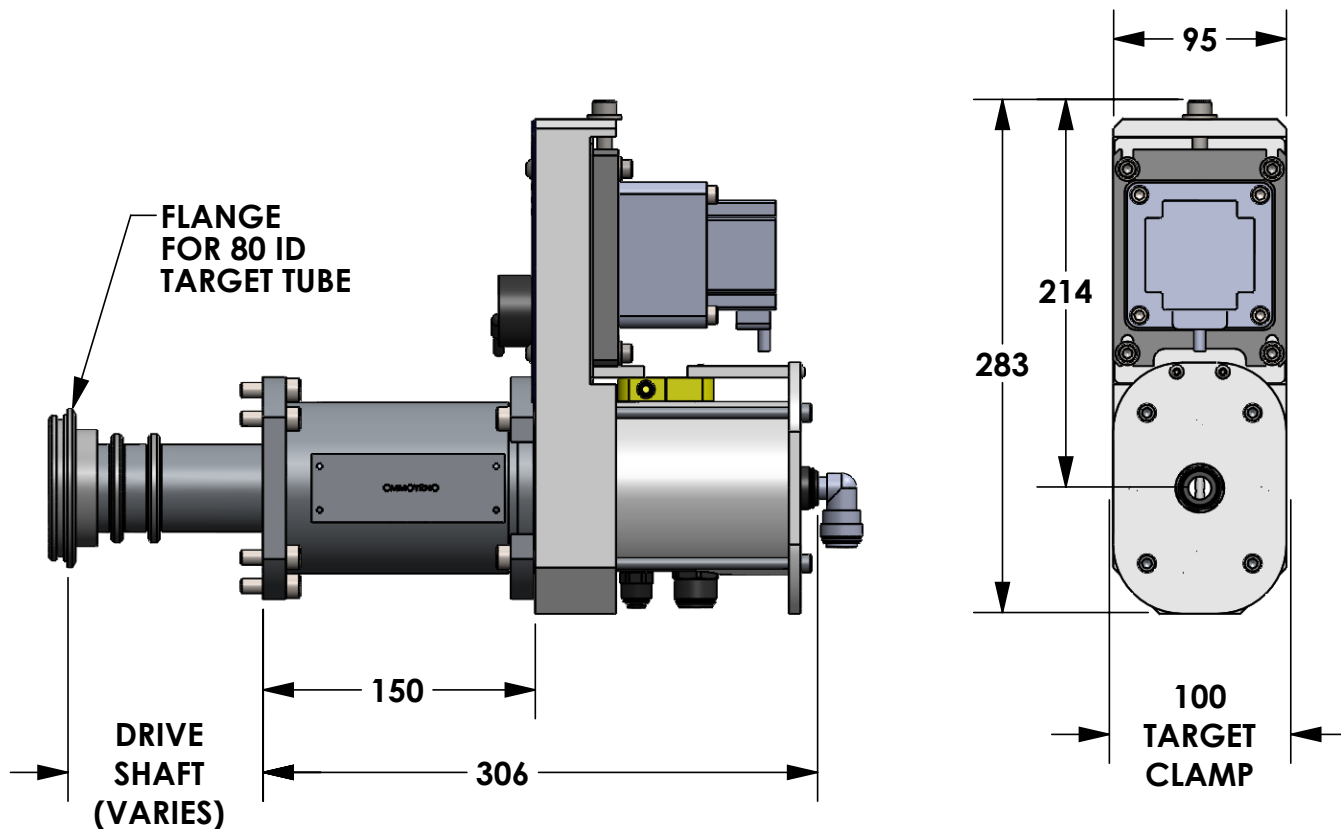


NOTE: THICKER THAN 20mm PLATE IS RECOMMENDED TO INCLUDE A PILOT BORE FOR THE CATHODE.

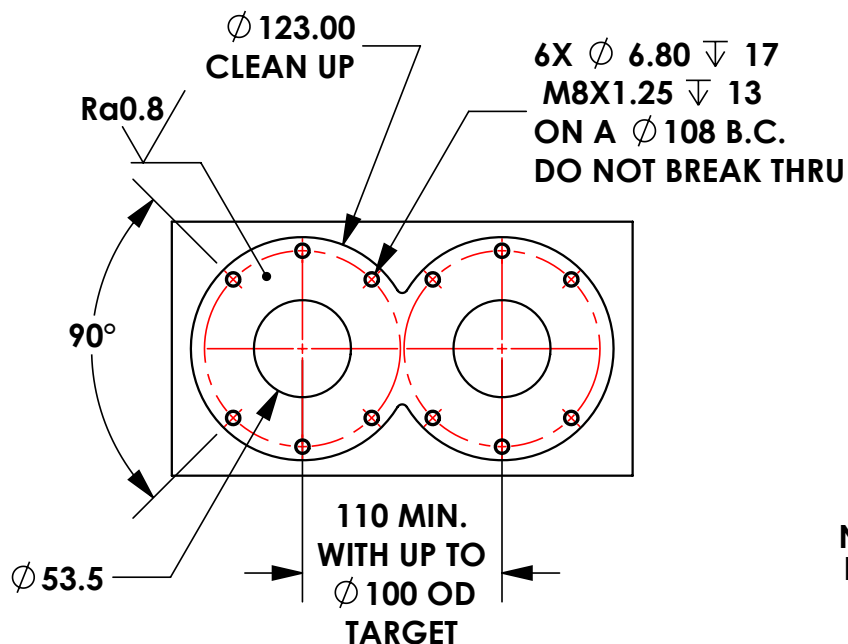
ALL DIMENSIONS IN mm

# CM-Series - 80mm ID Target

Provided with a flange to fit 80 mm ID target tubes, the CM is the perfect solution to fit smaller spaces.



80mm MINIMUM DRIVE SHAFT WITH A 20mm WALL  
(40mm MINIMUM WITH SPECIAL PARTS)



NOTE: THICKER THAN 20mm PLATE IS RECOMMENDED TO INCLUDE A PILOT BORE FOR THE CATHODE.

ALL DIMENSIONS IN mm