

## External-Mount End Block Swing Cathodes™

With the Swing Cathode™ external-mount end blocks, the magnet pack swings in a programmable rotary axis that is independent of the rotating target tube, making it an ideal system for display or 3D part coating.

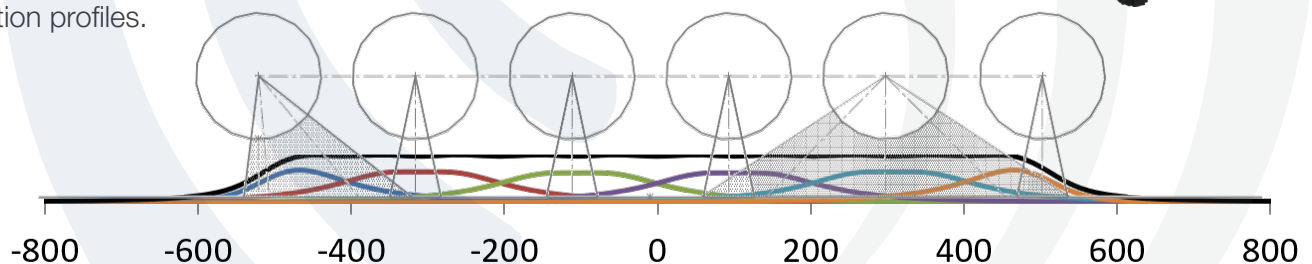
Other uses for Swing Cathodes™ are to pivot the magnet bar to a burn in location or to make magnet bar position adjustments via remote control.

Uniformity of  $< \pm 1\%$  can be achieved on a static substrate (compared to  $> \pm 15\%$  on static substrates when not using swing).

An outboard support may be required depending upon target length.

Available in three models: SMS, MMS, CMS.

Our Swing Duo™ software helps determine motion profiles.

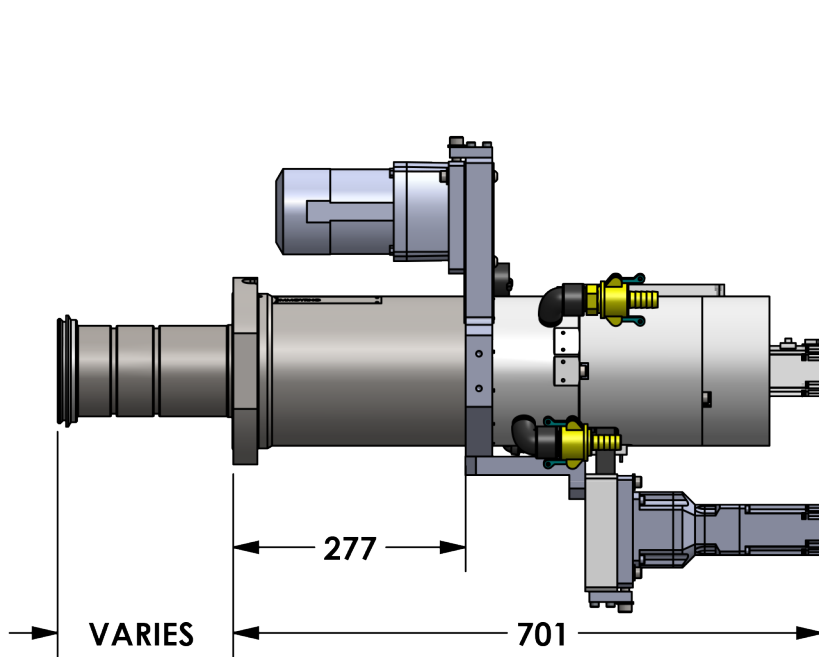


### TECHNICAL SPECIFICATIONS

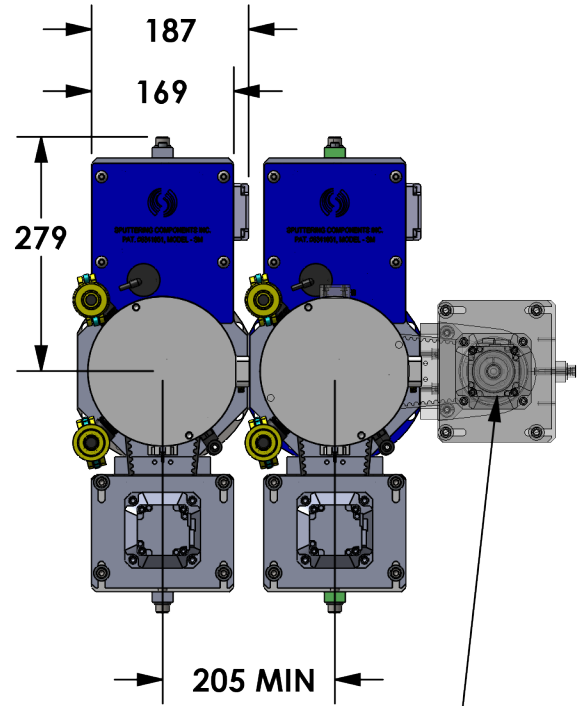
	Electrical rating	Target inside diameter	Target maximum length	Maximum load
<b>SMS</b> ▶	200 kW; 1500 V / 450 A (DC or 80 kHz AC)	125 mm	4000 mm	2000 kg horizontal 400 kg vertical
<b>MMS</b> ▶	100 kW; 1500 V / 225 A (DC or 80 kHz AC)	125 mm	2500 mm	1000 kg horizontal 200 kg vertical
<b>CMS</b> ▶	20 kW; 1500 V / 50 A (DC or 80 kHz AC)	125 or 80 mm	1000 mm	250 kg horizontal 100 kg vertical

**SPUTTERING**  
COMPONENTS®

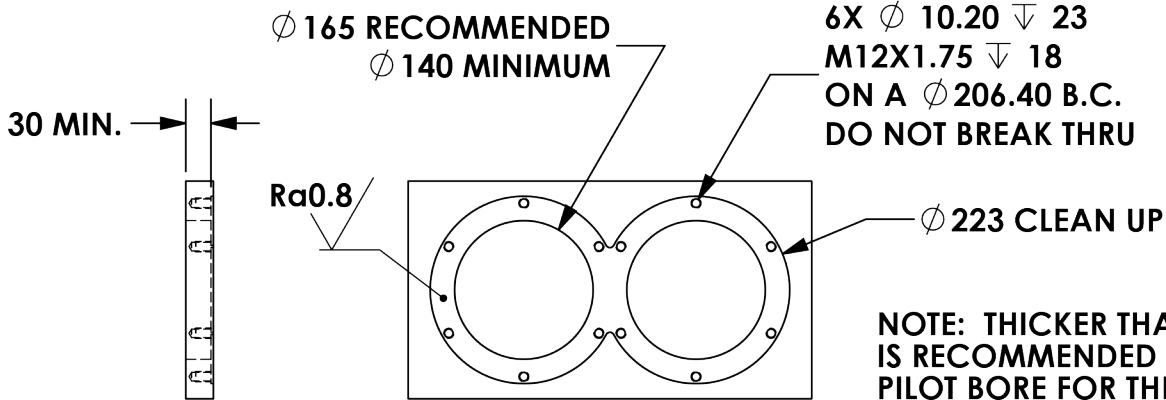
SM Swing Cathode™ (SMS)



ABSOLUTE MINIMUM DRIVESHAFT  
LENGTH = WALL THICKNESS + 10mm



NOTE: POSITION AND SIZE  
OF SERVO MAY VARY

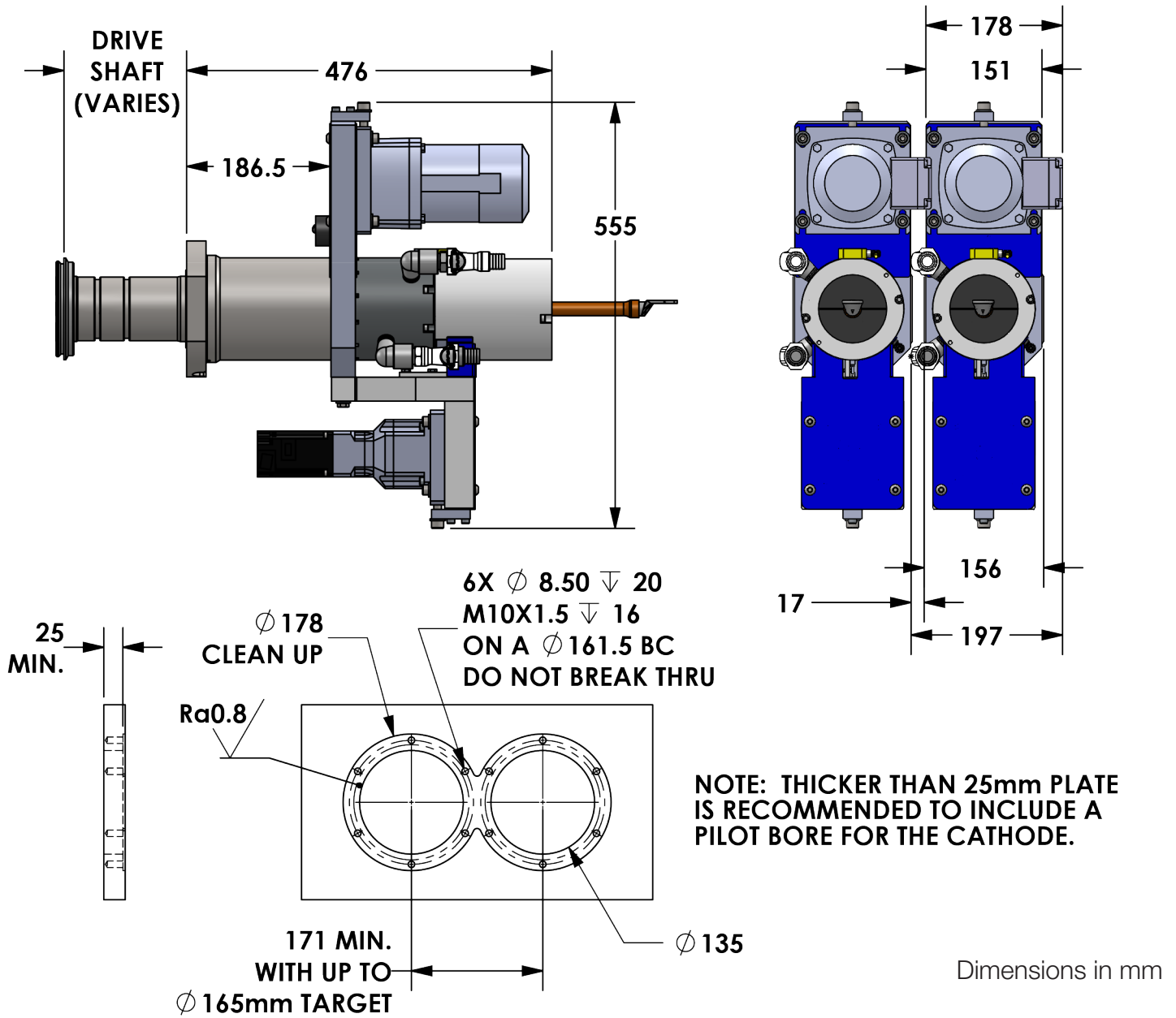


NOTE: THICKER THAN 30mm PLATE  
IS RECOMMENDED TO INCLUDE A  
PILOT BORE FOR THE CATHODE.

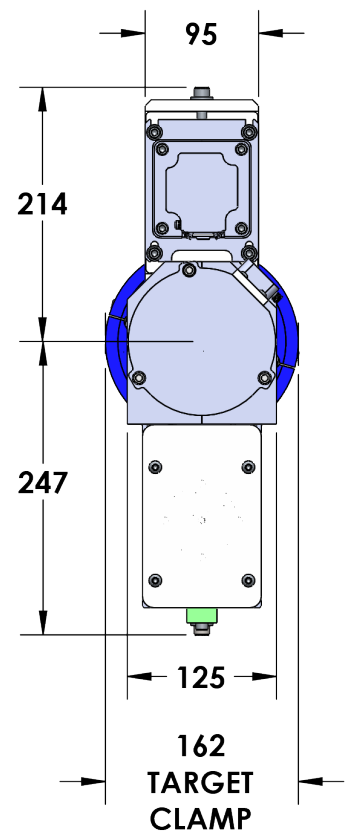
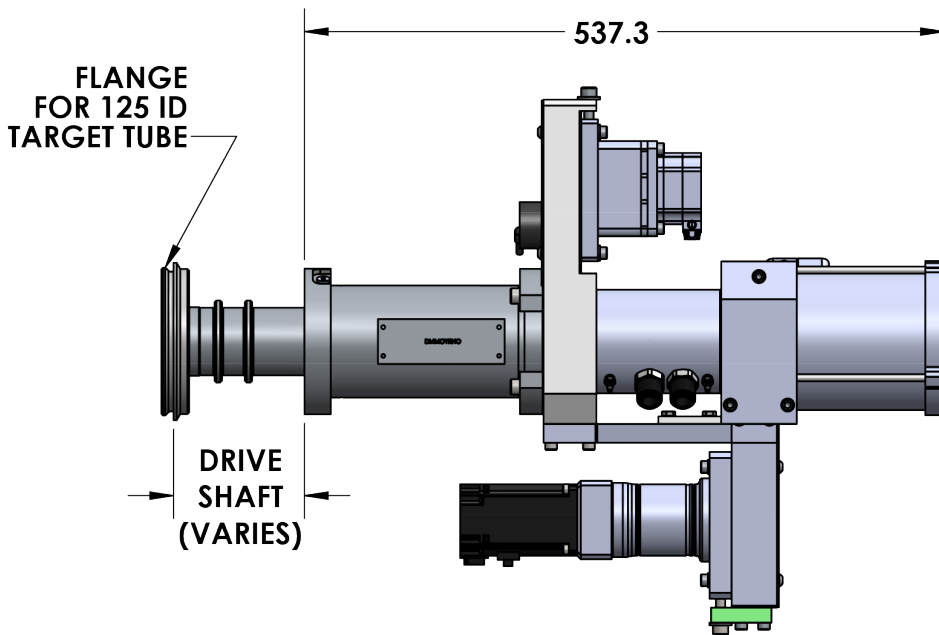
Dimensions in mm

# MM Swing Cathode™ (MMS)

**ABSOLUTE MINIMUM DRIVESHAFT  
LENGTH = WALL THICKNESS + 10mm**

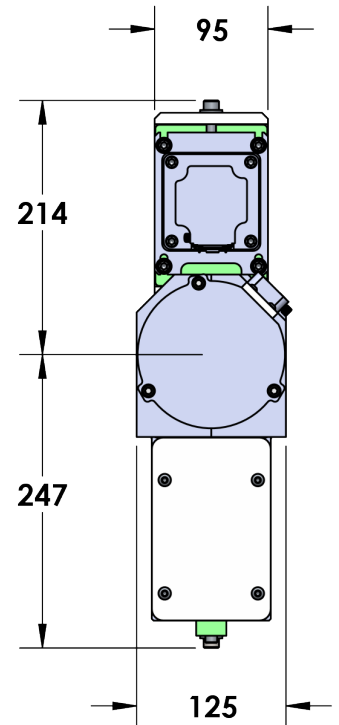
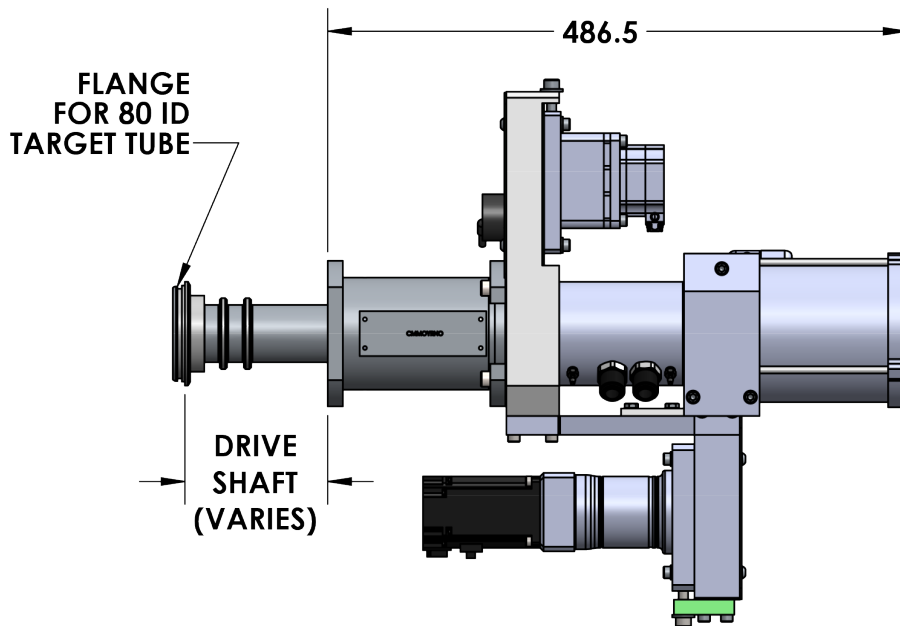


CM Swing Cathode™ (CMS) for 125 mm diameter targets



Dimensions in mm

CM Swing Cathode™ (CMS) for 80 mm diameter targets



Dimensions in mm

**ABSOLUTE MINIMUM DRIVESHAFT  
LENGTH = WALL THICKNESS +20mm**