

# HIGH POWER CORRUGATED WAVEGUIDE COMPONENTS

*Waveguide switches*



General Atomics (GA) produces waveguide switches for power/pulse lengths and frequencies

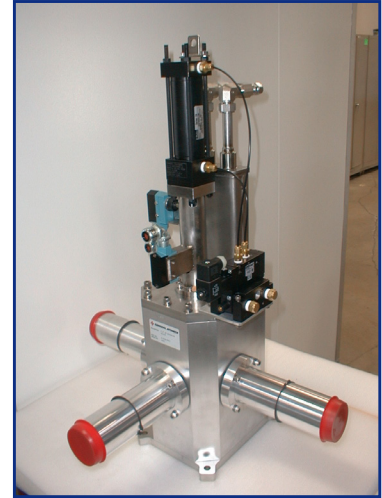
*Precision machined for accurate alignment, low-loss transmission and rapid change in beam direction*

# WAVEGUIDE SWITCHES

GA has the scientific, engineering and fabrication expertise to design and deliver standard and specialized waveguide switches

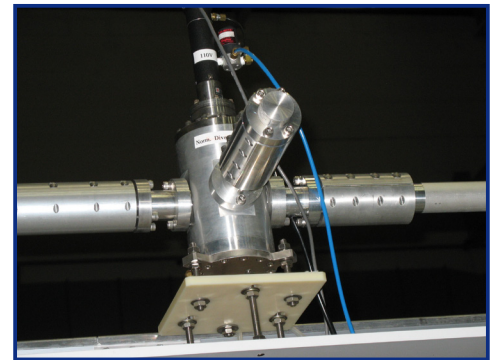
## **2.5 INCH (63.5 MM) DIAMETER HIGH POWER WAVEGUIDE SWITCH:**

- Suitable for 2 MW, 170 GHz cw operation, such as needed for ITER
- Mirror block is water-cooled
- Switching time from straight through to diverted position is  $\sim 1$  s using a pneumatically controlled linear vacuum feedthrough
- Offering a compact version for limited space applications



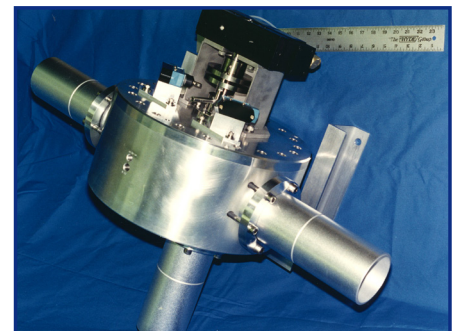
## **1.25 INCH (31.75 MM) WAVEGUIDE SWITCH:**

- Suitable for 1 MW, 10 s operation
- Design uses a pneumatically controlled linear actuator
- Used on DIII-D 110 GHz electron cyclotron heating system



## **3.5 INCH (88.9 MM) WAVEGUIDE SWITCH:**

- Non-evacuated switch for 0.5 MW, 5 s operation at 80 to 170 GHz
- Design uses pneumatically controlled rotary actuator



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