

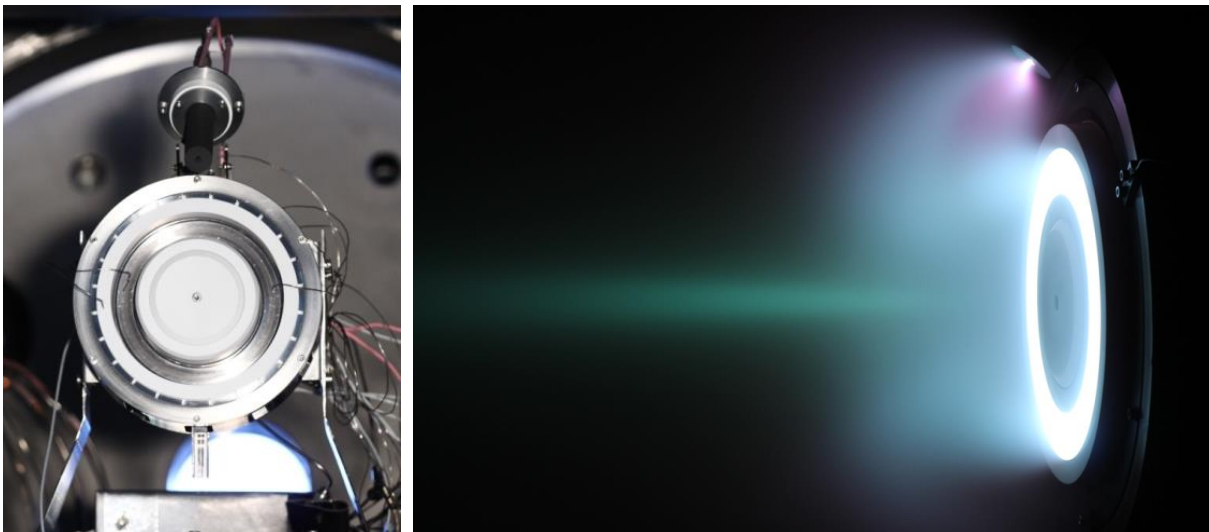
# SITAEEL

## HT 5k

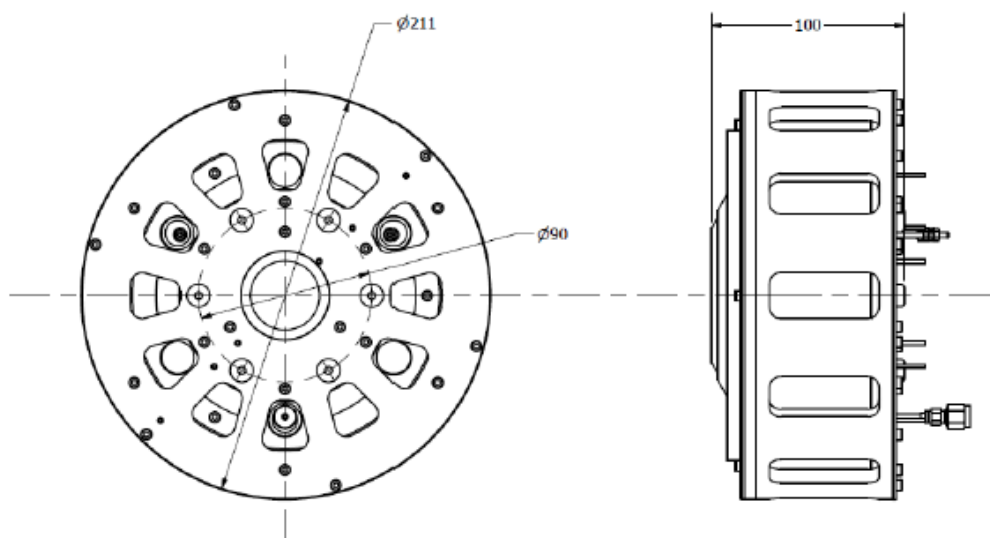
HT 5k Hall Effect Thruster (HET) has been designed to meet the requirements of modern communication and navigation satellites, performing propellant-saving LEO-GEO/LEO-MEO transfers as well as station keeping tasks on large geostationary platforms.

Relying on Sitael's heritage in HET technology, HT 5k is a high - efficient thruster with a magnetic system based on coils. Designed to be fed with Xenon, it can be effectively operated also with alternative propellants such as Kr maintaining excellent performance.

HT 5k can be provided with its HC 20A hollow cathode



HT 5k Hall Effect Thruster



## Technical Information

SPECIFICATIONS	
Thruster Technology	Hall Effect Thruster
Propellant	Xenon 99,996%
Power	2,5 – 7,5 kW
Thrust	150 - 350 mN
Isp	Up to 2850 s
Efficiency	Up to 60%
Thruster unit mass	11,7 kg (without cathode)
Thruster envelope	Ø 211x100 mm (I/F and cathode excluded)
Physical I/F	N° 6 M4 screwed holes on a Ø 90 mm circle
Technology Readiness Level (TRL)	5
Qualification status	Engineering Model Coupling test with SITAEL 5 kW PPU breadboard done Coupling test with Marotta TH-MFV1 control valve done