
Development of 10-mN class Hall thruster for the orbit transfer and correction of small satellites

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A 10 mN-class Hall thruster is being developed for the orbit transfer and correction of small satellites. The thruster is a cylindrical type that is especially adequate for the operation of small satellites owing to the reduction of internal surface area relative to the acceleration channel volume of the thruster. Results from the development of laboratory model demonstrate its performance characteristics that are appropriate for the orbit correction and transfer. A summary of collected data from the laboratory experiment and numerical simulations will be provided.