

Space Transportation (6)
Space Transportation (1) (1)

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MOMENTUS IS A SPACE TRANSPORTATION COMPANY.

Abstract

Founded in 2017, Momentus was born out of countless discussions with satellite operators and mission planners looking for rides to destinations that weren't commercially being offered. Our mission is simple: we want enterprise and existence to flourish in space and we are creating truly efficient in-space transportation systems to make that possible. Our transfer vehicles, loaded with satellites from our customers, will be taken to space by workhorse launch vehicles with affordable access to common staging orbits, before navigating and deploying their payloads to their final orbits. Momentus has developed an innovative, proprietary microwave electrothermal thruster technology using water as a propellant. This makes our transfer vehicles an order of magnitude cheaper to operate than alternative technologies, with the embedded promise to unlock further efficiencies with the ability to refuel from water depots stored in orbit or extracted in deep space. As a matter of fact, Momentus is part of the team that received US\$ 2 million in funding from NASA Innovative Advanced Concepts (NIAC) Phase 3 program in June 2019 for a flight demonstration concept mission for asteroid water harvesting thanks to optical mining.