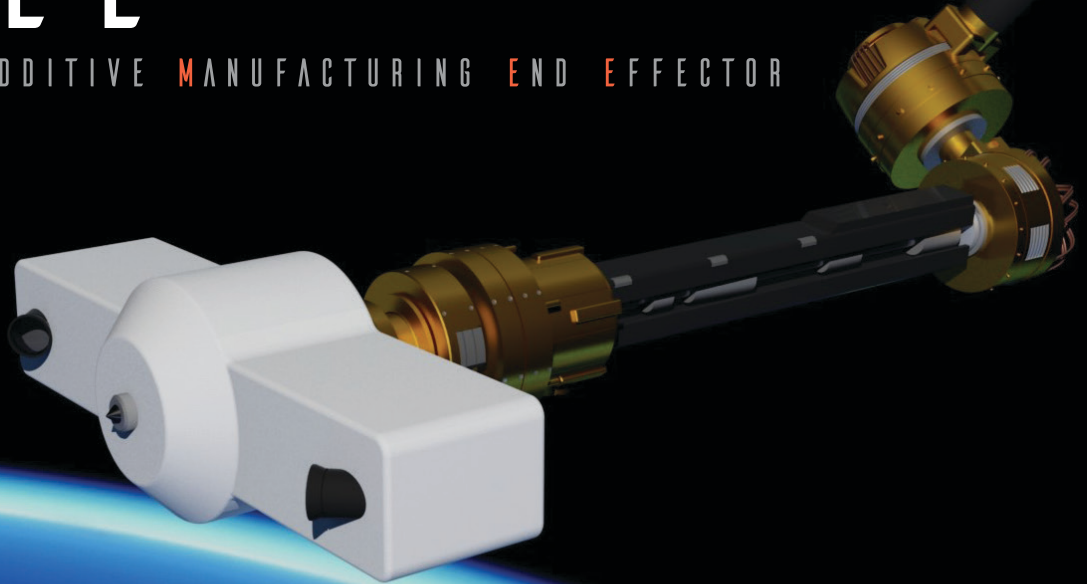


SAMEE

SCANNING & ADDITIVE MANUFACTURING END EFFECTOR



DESCRIPTION

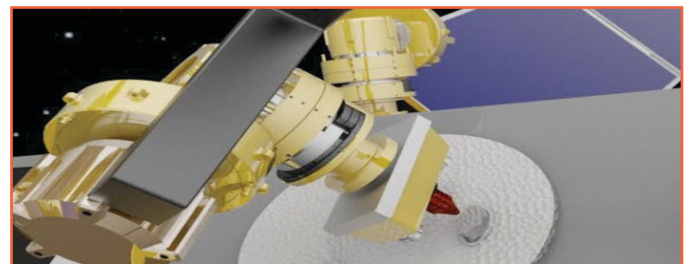
SAMEE scans a target's exposed surfaces and manufactures custom in-situ repairs or augmentations. SAMEE is composed of two primary subsystems: the Scanning Evaluation System (SES) and the Additive Manufacturing Extruder (AME).

The SES scans the target surface for material composition and geometry to generate the 3D topography. Simple solutions can be generated by on-board software, while troubleshooters on the ground tackle harder problems. The AME builds these solutions with a combination of substrates that adhere to the local surface and space-rated materials for the finished object.

APPLICATIONS

On-Orbit Repair – SAMEE has the ability to manufacture and repair cracks, breaks and holes on a given target. This function can be performed autonomously or under direct control, with oversight from mission controllers on the ground.

Add Structures to Spacecraft – Shielding or layered materials may be necessary for different mission types. SAMEE can carry multiple feedstock streams on a single mission, including composites, metals or hybrid materials.



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