



DESTIN Lunar Drill

DESTIN: Drilling Exploration & Sample Technology Integrated. Designed for use on the lunar surface.

- One metre lunar drill, contiguous sample
- Suite of tools for augering, sample collection in consolidated and unconsolidated material
- Sample transfer receptacle for parsing sample
- Optional substrate differentiation package
- Power <150W at DC nominal
- No consumables
- Stand-alone, autonomous, and tele-operable
- Communication protocol: DDS over TCP/IP
- Mass: 42kg including avionics (all modules)
- Approximate operating envelope (all modules):
2.1m h x .05m x 0.6m
- Operations on slopes up to 15 degrees
- Terrestrial operations at -20°C to 40°C
- Extended operation temperatures through component substitution and thermal management
- Storage -40°C to 50°C



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Both pictures were taken by NASA.