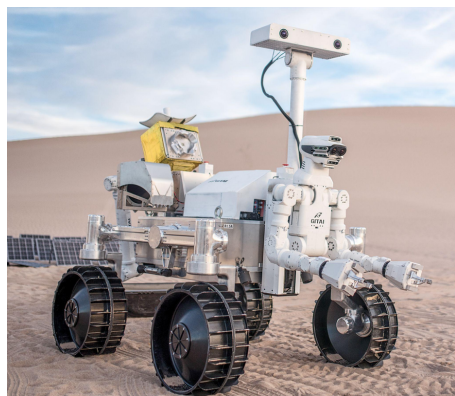


## GITAI Rover R1.5

GITAI provides Robotic Rovers for Lunar Base Construction. Integrating components built inhouse proven to be TRL7 by Dec 2023, GITAI's rover enables various capabilities for Lunar exploration, construction to In Space Activities.



[Option example, with multiple robots, tools, haz cams](#)



[Construction using robotic arms and tools](#)

	Spec	Unit
Degrees of Freedom	4 wheel units: 1 driving and 1 steering each	
Wheel dimension	0.6 [m] x 0.25 [m]	
Weight	280	kg
Top Speed	0.24	m/s
Power Consumption	115-1500	W
Drive Power Supply	36-48	Vdc
Rated Maximum Angular Velocity of Actuators	143 @ 24V input 285 @ 48V input	deg/s
Motor	Brushless DC Motor	
Actuation Controller	Distributed Controllers for each arm joint and each wheel unit	
Internal Communication Bus	EtherCAT, ethernet	
Sensor (Rover body)	IMU(VN-100)	
	Absolute encoder (for rocker link angle)	
Computer	Jetson Xavier	
Others	Dust mitigation on actuation units	
	Anchor point	
	Supports additional interface for payload, sensors etc	
Options	Haz Cam for navigation	
	Inchworm Robot Arm for general task execution	