Mini-Rill Drone
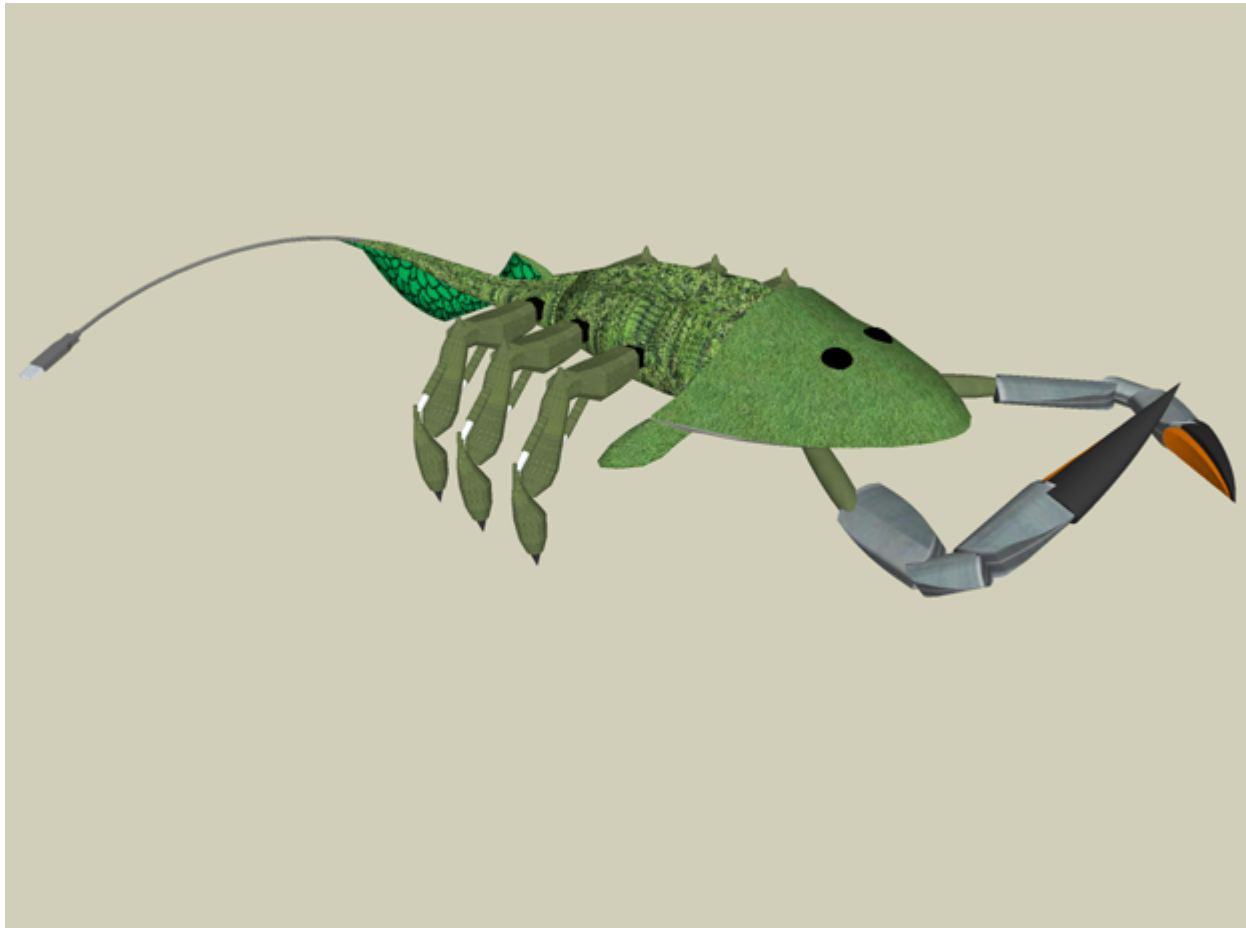

The Mini-Rill Drone was designed by the Henatu Citystate in CC 37 (YE 32) to support Azorean engineers while conducting field repairs on Rill and vehicles. The power source is small battery that is charged while the drone is inactive at its docking station, which is either the back of a Rill or somewhere in a vehicle. The battery lasts for about 5 hours before needing to be recharged. The AI script, written by the Edel citystate, was written so that the drone can receive verbal orders. The AI cannot detect damage, so the engineer must specifically tell the drone what to repair, what tools to use, and how much to repair it. Future advancements in AI scripting may allow these drones to find and repair damage themselves without need for an engineer's instructions.

The drone is very light weight (approximately 2 lbs) and compact enough to fit in any engineering kit. The top of its body is shaped like an arthropod except with exterior crab-like arms and legs and a vertical fin on its tail. Its height is only 8 cm high when standing and appear to be about only 32 cm long. Each leg has a special under-skin of SythSetae and a retractable fin. The legs propel themselves through the water using high speed underwater crawling where each leg helps to balance the non-propulsive forces of the other legs. With the finned tail providing additional balance, the mini-rill drone has a 360-degree turning capacity and a maximum speed of 5 km/h. Each drone has two claws that can stretch out to 15 cm. The claws are used for various repair tasks such as adjusting bolts and screws, carrying things, etc. Underneath both claws are small sonic welders to seal cracks or perform patch repairs.

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