

Interactive Presentations (IP)
Topic 3 - Interactive Presentations (3)

Author: Ms. Rong Sun
China Aerospace Science and Technology Corporation (CASC), China, sunrongcindy@gmail.com

A JELLYFISH BIONIC FLEXIBLE SOLAR WING RETURNABLE VEHICLE FOR SPACE
EXPLORATION

Abstract

Flexible Solar Wing Returnable Vehicle can move like jellyfish, and capture target objects with Soft Gripper to implement space rescue. Jellyfish aircraft exerts varying degrees of force on the combined flexible wing, which can be used to control the course. The wing is equipped with solar wing as energy source and flexible antenna as communication device. The load chamber is hung below the middle drive thruster to accommodate the target object. On Mars, jellyfish craft can use Soft Gripper to catch abandoned Mars vehicles and take them up to orbit back to Earth.