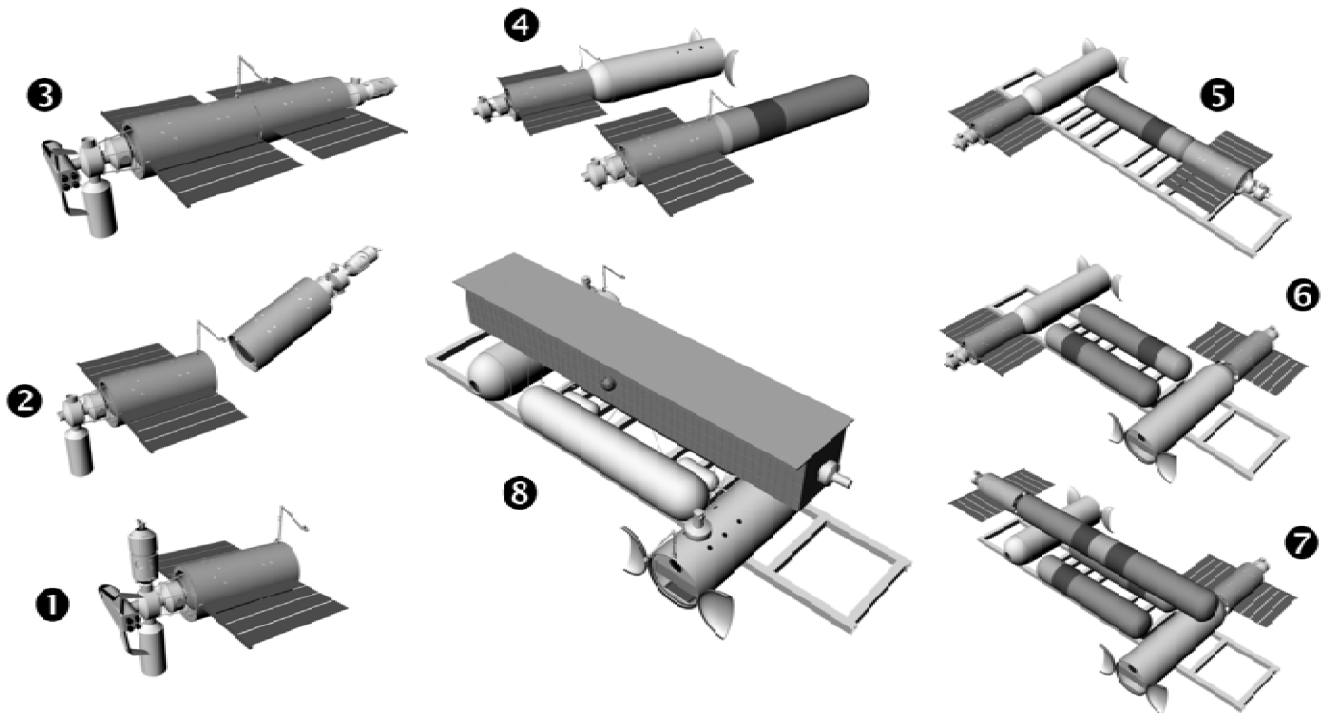


Spacefaring Logistics Infrastructure Fact Sheet



Space Logistics Base Assembly

1. First space construction station is deployed to orbit using the Shuttle-derived spacelifter. Assembly crews are transported to the station using the Gen. 1 passenger spaceplane while the Gen. 1 aerospaceplane delivers cargo containers and the first space tug. First space station achieves operational status.
2. Second space construction station is deployed. Using the space tug, it is positioned near the first station where it is grappled by the station's robotic arm.
3. The second station is attached to the first station via the stations' mating rings. This enables ready access to its interior to support its reconfiguration to operational status.
4. The space logistics base's first space hangar is deployed using the spacelifter. Using the space tug, the hangar is separated from the spacelifter's core propellant tanks. Both the hangar and core propellant tanks are then attached to the two stations for their reconfiguration into their operational configuration. Remaining liquid hydrogen and oxygen in the core propellant tanks are recovered as part of the process of preparing these tanks for reuse in the hangar air storage system.
5. The first elements of the space dock's structural truss are assembled inside the hangar from components stored in the hangar during launch. Using the space tugs and EVA, these truss elements are assembled into the center section of the dock. The space hangar and air storage tanks are secured to this dock structure.
6. The second space hangar is deployed to LEO where it is separated from the core propellant tanks. Both the hangar and core propellant tanks are attached to the dock structure.
7. The operations module is deployed to LEO. It is attached to one of the stations to support its internal reconfiguration. The station, aided by the space tug, is used to position the module on top of the two space hangars.
8. Using components transported to orbit by the Gen 1 aerospaceplane and additional spacelifter missions, the remaining elements of the space logistics base are assembled. These include the solar arrays and waste heat radiators attached to the operations module; the completion of the hangar air storage system, the internal compartments and equipment in the hangars, and the completion of the space dock (truss structure, lights, robotic arms, external materiel storage, solar arrays, attitude control thrusters, etc.)